

Phone (508) 653-8007
Fax (508) 653-8194



33 West Central Street
Natick, MA 01760-4503

February 16, 2010

Department of Environmental Protection
Bureau of Waste Site Cleanup – Northeast Region
205b Lowell Street
Wilmington, MA 01887

**Re: Phase III Identification, Evaluation, and Selection of
Remedial Action Alternatives
25, 47 & 71 Topeka Street
Roxbury, Massachusetts
RTN 3-19130**

To Whom It May Concern:

We are pleased to submit this Phase III Identification, Evaluation, and Selection of Remedial Action Alternatives on behalf of our client, LMB Partners, Limited Partnership, for the commercial property identified as 25, 47 & 71 Topeka Street in Roxbury, Massachusetts (the Site).

Very truly yours,

IRWIN Engineers, Inc.

A handwritten signature in black ink, appearing to read "Dan Marsh", is written over the printed name.

Dan Marsh
Senior Project Scientist

**PHASE III IDENTIFICATION, EVALUATION, AND SELECTION OF
REMEDIAL ACTION ALTERNATIVES**

**25, 47, & 71 TOPEKA STREET
ROXBURY, MA**

RTN 3-19130

February 16, 2010

Prepared for:

LMB PARTNERS, LIMITED PARTNERSHIP
50 BATTERY STREET, #312
BOSTON, MA 02109

Prepared by:



33 West Central Street
Natick, MA 01760

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1 INTRODUCTION

IRWIN Engineers, Inc. (IRWIN) has prepared this Phase III Identification, Evaluation and Selection of Comprehensive Remedial Action Alternatives Report (Phase III) on behalf of LMB Partners, Limited Partnership (Client). This report was prepared in accordance with the Massachusetts Contingency Plan, 310 CMR 40.0000 for Release Tracking Number (RTN) 3-19130 associated with the property at 25, 47, & 71 Topeka Street in Roxbury, MA (the Site). A Site Locus map identifying the Site is shown as Figure 1. A Site Plan is shown as Figure 2.

2 LIMITATIONS

This report is subject to the limitations outlined in Appendix A attached hereto and incorporated herein. This study and report have been prepared by IRWIN Engineers, Inc. (Engineer) on behalf of and for the exclusive use of LMB Partners, Limited Partnership (Client) solely for use to identify, evaluate and select remediation alternatives for the Site. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of IRWIN Engineers, Inc., except as required by law. However, IRWIN Engineers, Inc. acknowledges and agrees that, subject to the Terms and Conditions of our contract, the report may be conveyed to Client's attorney, the current property owner, and Winston Flowers as a pending purchaser of the Site, or to regulatory agencies. IRWIN Engineers, Inc. would be pleased to discuss the conditions of dissemination of the report to additional parties. The report has been prepared in accordance with the Terms and Conditions set forth in our contract. All uses of this report are subject to, and deemed acceptance of, the conditions and restrictions contained therein. No other warranty, express or implied, is made.

3 BACKGROUND INFORMATION

3.1 General Disposal Site Information

Site Name:	Commercial Property
Location:	25, 47 & 71 Topeka Street Roxbury, Massachusetts 02118
UTM Coordinates:	N 4688513: E 329622
Potentially Responsible Party:	LMB Partners, Limited Partnership
Contact Person:	Chris Cummings
Relationship to Site:	Member of LMB Partners, Limited Partnership
Telephone Number:	559-314-5789

3.2 LSP of Record

The LSP employed to conduct the Phase III evaluation is:

J. Andrew Irwin, P.E.
LSP No. 9997
IRWIN Engineers, Inc.
33 West Central Street
Natick, MA 01760-4503
(508) 653-8007

3.3 Regulatory Requirements

3.3.1 State Regulations

The Massachusetts Contingency Plan (MCP) specifies, at 310 CMR 40.0852(1), that a Phase III evaluation shall be conducted for any disposal site for which a Phase II Comprehensive Site Assessment has been completed and a Response Action Outcome has not yet been achieved. This report is intended to satisfy the requirement for a Phase III Report.

3.3.2 Federal Regulations

Due to the presence of PCB contamination of the Site, the Site is subject to regulation under both the MCP and the Code of Federal Regulations (CFR) Section 40 Part 761.61(a)(3), which regulates remediation of soil impacted with PCBs. The Responsible Party intends to submit a United States Environmental Protection Agency Notification to Conduct a Self-Implementing Plan (SIP) for the remediation of the PCB contamination on the Site. Implementation of the SIP is a component of the Response Actions

evaluated/selected in this Phase III Report. Federal regulations applicable to the Site prohibit remediation of the PCB-impacted soil without written approval of the SIP by the EPA.

4 CONCEPTUAL SITE MODEL

The 25 and 47 Topeka Street portions of the Site are currently vacant with plans for redevelopment with a building pending a real estate transaction. The Site is located in an urban commercial area with no residential or recreational uses nearby. There is a prison facility, substance abuse clinic and the Greater Boston Food Bank located within ¼ mile of the Site. The former 25 and 47 Topeka Street buildings were demolished around 2004 – 2005 following cessation of scrap operations in 2000. Residual rubble material covers much of the vacant portion of the Site. That portion of the Site is secured with perimeter fencing that is maintained and locked to restrict access.

The 71 Topeka Street parcel is part of the Disposal Site and is occupied by a commercial cold warehouse operation. The western portion of the 71 Topeka Street lot is paved driveway for the warehouse loading docks facing the street and the eastern portion is fenced off. The northern side of the building is used for parking and outdoor storage.

There is a Hot Spot source area of lead and PCBs with impacts to surface soils in what was the former yard/driveway area on the north side of the former building at 47 Topeka Street and upon a portion of a vacant railroad easement on the eastern side of the property. In addition to the MCP the Site is also regulated under TSCA for the presence of PCBs. The Hot Spot area of comingled PCBs and lead in soils covers approximately 5,000 square feet more or less and is situated within a fenced area that is not occupied and marked with warnings of the presence of hazardous materials and no trespassing. A removal action will be necessary to address the Hot Spot area according to TSCA requirements and the removal action, based on assessment to date, may involve on the order of 1,200 cubic yards of soil impacted with PCBs and lead to achieve 10 ppm PCB and lead below UCLs.

The Disposal Site includes areas outside the fenced enclosure for which risks are evaluated separately from the Hot Spot and the current use of the property does not pose a substantial hazard. Afterward exposure to residuals in soils needs to be controlled with an AUL on the entire Disposal Site including the 25, 47 and 71 Topeka Street parcels.

5 ENVIRONMENTAL SETTING

The Site lies in a commercial and industrial area of Boston. Soil at the Site is currently inaccessible. A locked chain linked fence along the perimeter of the Site blocks access on three sides, and access to the fourth side (eastern) is obstructed by a large building.

There is groundwater at the Site located within thirty feet of an occupied building where the average annual depth to groundwater is less than 15 feet bgs. This groundwater is located adjacent to the on-Site building to the north. All groundwater in the Commonwealth of Massachusetts is considered a potential source of discharge to surface water. However, there are no potentially productive aquifers, Zone II areas, or Interim Wellhead Protection Areas located within 0.5 mile of the Site. Groundwater at the Site is categorized largely as GW-3, with a small proportion categorized as GW-2.

Current potential receptors at the Site include construction and utility workers that would require oversight and training if contact with soil was anticipated. Access by trespassers is restricted with a locked fence surrounding most of the perimeter of the Site and abutting structures. Groundwater at the Site is not used as a source of drinking water. The indoor air pathway to the adjacent commercial facility is not significant based on the low levels of contamination present in groundwater collected from monitoring wells located near the building and other monitoring wells.

Ecological and surface water receptors are remote from the Site. The Charles River, approximately two miles north, and Old Harbor, approximately one mile east, are the nearest surface water bodies. Both are sufficiently distant from the Site that contaminants are not likely to migrate and present a significant risk to surface water.

6 SOURCE CHARACTERIZATION

Contamination identified in soil at the Site consists of petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), lead, and polychlorinated biphenyls (PCBs). However, it is the comingled PCBs and lead that drive the risk to Human Health at the Site. Contamination identified in groundwater at the Site was not detected above applicable MCP risk standards. Although extensive assessment of soil and groundwater has been conducted at the Site during the last 10 years, a discrete release or source(s) of the petroleum and PAH contamination has not been positively identified. That contamination is believed to be a result of historical filling on the Site. The presence of lead and PCBs in soils within the working yard/driveway suggests that release(s) may have occurred during scrap material handling or processing.

The Site vicinity has historically been a mixed commercial and industrial area and was developed in the early 1900s when the South Bay was filled in with "urban fill" and there is approximately 8 to 10 feet deep of urban fill on the Site. The presence of various metals and PAHs are known to be typically associated with such urban fill. Historical industrial activities at the Site included scrap metal sorting and smelting from the 1930s to 1970s and operations as a metal scrap yard from the 1930s to the late 1990s.

Impacted soils with PCBs within the Hot Spot on the north side of the former 47 Topeka Street building are generally limited to the top 2 feet of soil with impacts to 6 feet within a smaller portion of the area. Impacted soils with lead are generally distributed with highest concentrations in the top 4 feet of soil and otherwise distributed at lower concentrations in the urban fill layer.

According to reported past discussions with Mr. Oshry, a now deceased, former operator, lead smelting was conducted over a short period of only several years during the mid 1960s and the operation was small and crude in construction. We have no knowledge that the lead smelting system was operated with any emission controls. At this point there is no evidence to confirm that the lead present is emission control dust/sludge from secondary lead smelting. Based upon our due diligence efforts not finding evidence of emission control equipment associated with the secondary lead smelting we conclude that the soil is not to be considered listed K069 hazardous waste. Soils with high concentrations of lead were tested and are Toxicity Characteristic for lead under hazardous waste rules when generated.

7 IMMINENT HAZARD EVALUATION

The current exposure scenarios to evaluate Imminent Hazard conditions are trespassers on the 25 and 47 Topeka Street portion of the Site, and trespassers on the 71 Topeka Street portion of the Site.

Hot Spot Evaluation

A Risk Characterization using the Method 3 Short Form for the Trespasser scenario on the 25 and 47 Topeka Street portion of the Site found that an Imminent Hazard would be present if there was unrestricted access. However, access to the Hot Spot area of impacted soils is restricted with a locked chain link fence maintained along the perimeter of the 25 and 47 Topeka Street portion of the Site blocking access on three sides, and access to the fourth side (eastern) is obstructed by a large building. In addition to maintaining the fence for site security, signs warning of hazardous materials and no trespassing are posted around on the fencing enclosing the Hot Spot area. There are no known active utilities within the 25 and 47 Topeka Street portion of the Site.

Outside Hot Spot

Where there are active utilities on 71 Topeka Street a Method 3 Short form was used to evaluate an Imminent Hazard for the trespasser and construction worker scenarios using data from the 71 Topeka Street portion of the Site. Maximum PCB and petroleum hydrocarbon fraction range values from this accessible portion of the Disposal Site were used in the calculation. The lead exposure point concentration value was derived as an average from the data set for shallow soils located less than 5 feet bgs in the front (west) side of the building facing Topeka Street.

The Excess Lifetime Cancer Risk (ELCR) for the trespasser and construction worker scenarios were both calculated to be 4×10^{-7} , which is below the threshold of 1×10^{-5} . The Hazard Indices for the trespasser and construction worker scenarios were calculated to be 0.3 and 1, respectively, which are not greater than the standard of 1. Imminent Hazards are not present for either the utility worker or trespasser on the 71 Topeka Street portion of the Site.

8 SOURCE CONTROL & ELIMINATION

There are no current operations involved with ongoing release of oil or hazardous materials at the Site.

The Hot Spot area concentrations of PCBs and lead in soil drive the risk to Human Health at the Site. Removal of surface soils in the Hot Spot Area as a Comprehensive Response Action is planned to reduce risk at the Site. The removal action will be subject to TSCA regulations and we expect to be managed under the Self-Implementing Plan provisions of 40 CR 761.61a. There is extensive post excavation sampling required by TSCA and that data will be incorporated into a risk characterization to confirm that residual concentrations will pose No Significant Risk with implementation of an Activity and Use Limitation (AUL) at the Site as an administrative control to reduce risk by eliminating future residential use and requiring management of impacted soils at depth during any construction at the Site.

9 INFORMATION REQUIRED BY MCP SECTION 40.0835

9.1 Initial Screening of Alternatives

Candidate technologies will be evaluated here in terms of their abilities to achieve these objectives.

9.1.1 Remediation Objectives

The objectives of remedial actions will be, to the extent feasible:

1. Achieve a Condition of No Significant Risk for a Permanent Solution;
2. Reduce the mass of each COC; and
3. Approach or achieve background conditions.

9.1.2 Regulatory Requirements for Screening Technologies

MCP Section 40.0856 specifies that an initial screening of remedial technologies shall be conducted to identify remedial action alternatives which are likely to be feasible, based on the contaminants present, media contaminated, and site characteristics. For the purposes of Initial Screening, remedial action alternatives are reasonably likely to be feasible if:

- (a) Technologies to be employed by the alternative are reasonably likely to achieve a Permanent or Temporary Solution; and
- (b) Individuals with the expertise needed to effectively implement available solutions would be available.

In the initial screening that follows a federal database has been used to identify technologies that are reasonably likely to achieve a Permanent or Temporary Solution. In order to be included on the federal database the technologies must be sufficiently developed that individuals with the expertise needed to effectively implement the technology are available.

9.1.3 Remedial Action Alternatives Identification and Screening Procedure

The initial identification and screening of technologies in this Phase III Report is based on the data in the Federal Remediation Technology Roundtable (FRTR). The FRTR was established in 1991 as a federal interagency committee to exchange information and to provide a forum for joint action regarding the development and demonstration of innovative technologies for hazardous waste remediation. The FRTR is useful for screening and evaluating candidate cleanup technologies. Information on widely used and “presumptive remedies” is provided. A presumptive remedy is a technology that EPA believes generally will be the most appropriate remedy for a specified type of contaminant/site. Use of presumptive remedies allows a Responsible Party to quickly eliminate non-feasible remedies and focus on one or two alternatives.

9.1.4 Screening Criteria

Irwin Engineers used the following criteria in screening potentially viable technologies for the achievement of a Permanent Solution:

Ability to Achieve a Condition of No Significant Risk – only technologies which appear to be capable of achieving a condition of No Significant Risk will be considered for detailed evaluation.

Ability to approach or achieve background conditions – Technologies that may be capable of approaching or achieving background conditions are preferable to those that are not capable of approaching or achieving background conditions.

Mass Reduction – Technologies that achieve a reduction of mass are considered to be more attractive than those which do not reduce mass.

Development/Availability status – Only fully developed, currently available technologies are considered.

Reliability – For screening purposes, technologies were evaluated by the FRTR as “high reliability, low maintenance”, “average reliability, average maintenance” and “low reliability, low maintenance”.

Cleanup Time – For screening purposes, technologies were evaluated by the FRTR as follows:

- Better - less than 1 year for in-situ technologies, less than ½ year for ex-situ technologies
- Average - from 1-3 years for in-situ technologies, from ½ to 1 year for ex-situ technologies.
- Worse - more than 3 years for in-situ technologies, more than 1 year for ex-situ technologies.

In-Situ application- A technology which can be implemented in-situ is assumed to be more cost-effective than ex-situ technologies, will be significantly more convenient and will have a smaller impact on Site operations than technologies which are ex-situ. Ex-situ technologies which can be implemented on site and which produce a relatively uncontaminated soil that can be used as backfill may be viable alternatives to off-site disposal of soil if the soil cannot pass a TCLP procedure and would therefore be disposed of at an out-of-state hazardous waste disposal facility at a very high price.

Cost – technologies receiving a subjective cost rating of “Better” in the FRTR matrix were considered to be preferable to others, all other factors being equal. Technologies that are effective on more than one of the COCs at the site are assumed to be potentially more cost-effective than are alternatives that rely on more than one technology to treat all three forms of contamination.

The use of Activity and Use Limitations is retained for further consideration.

9.1.5 Potentially Viable Remediation Alternatives, PCB- Contaminated Soil

Based on our interpretation of the spatially distributed data available at this point we have prepared the following preliminary magnitude estimates for volumes of PCB impacted soils. The thresholds of 100, 50 and 10 mg/kg PCB relate to USEPA regulatory standards for PCB remediation where less than 100 or 50 mg/kg would restrict usage of that portion of the property to be capped without construction of buildings and limited frequency of occupancy such as being isolated by fencing from the surrounding area and used for parking. Achieving 10 mg/kg would allow construction of a building with use limitations related to management of soils. The volume of soil identified below as having greater than 10 mg/kg of PCBs in an estimated amount of 800 cubic yards with a contingency of 400 cubic yards.

PCB Greater than 100 mg/kg	150 – 200 cubic yards
PCB Greater than 50 mg/kg	275 – 300 cubic yards
PCB Greater than 25 mg/kg	350 – 375 cubic yards
PCB Greater than 10 mg/kg	up to 1,200 cubic yards

9.1.5.1 Permanent Solution

The only remediation alternative considered for a Permanent Solution for PCB-contaminated soil is excavation for off-Site disposal. Excavation of approximately 1,200 yards of soil for off-Site disposal is estimated to reduce the PCB concentration to less than 10 ppm in the Hot Spot area.

PCB concentrations have been characterized in two-foot depth increments. As segregation on soil based on concentration thresholds has shown to be logistically difficult, time consuming, and costly, remediation waste will require off-site disposal at a TSCA-permitted RCRA Subpart C chemical waste landfill.

Details of the remediation plan for PCB-contaminated soil will be included in the SIP, which will be submitted to MassDEP in the form of a Phase IV Remedy Implementation Plan concurrent to submittal to USEPA. The following sub-sections present the evaluation of removing incremental volumes of PCB-impacted soil below 100 mg/kg.

9.1.5.1.1 Removal of PCBs to Less Than 100 mg/kg (Screened In)

Removal of PCB impacted soils to achieve at least the target level of 100 mg/kg is required as the minimum by USEPA regulations. After the removal of an estimated 150-200 cubic yards of PCB remediation waste soils the source area would have to be covered with an engineered barrier meeting the requirements of the USEPA regulations. Disposal will be as PCB remediation waste and as a characteristic hazardous waste for lead unless the waste is stabilized on-site.

This alternative is considered the minimum remedial action required to achieve a Permanent Solution.

9.1.5.1.2 Removal of PCBs to Less Than 50 mg/kg (Screened In)

A removal action for 250 to 300 cubic yards would allow the area to be isolated with a fence with posted signs to satisfy USEPA without a cap. However, the restricted area would not be available for low occupancy use such as parking. Further, with the presence of residual lead at concentrations greater than the UCL in the source area, an Engineered Barrier would be required for a Permanent Solution in the source area.

This alternative is retained for consideration as a remedial action.

9.1.5.1.3 Removal of PCBs to Less Than 25 mg/kg (Screened In)

With removal of 350-375 cubic yards to 25 mg/kg PCB the need for a cap for USEPA is eliminated although the area must still be restricted for use to maintain low occupancy but the restricted area would be available for low occupancy use such as for parking according to our understanding from USEPA.

With the presence of residual lead at concentrations greater than the UCL in the source area, an Engineered Barrier would be required for a Permanent Solution in the source area.

This alternative is retained for consideration as a remedial action.

9.1.5.1.4 Removal of PCBs to Less Than 10 mg/kg (Screened In)

With removal of up to 1,200 cubic yards to 10 mg/kg PCB the USEPA will allow construction of an occupied building in the area provided the building is designed to constitute the cap. Removal of the volume of soil to achieve residual concentrations to less than 10 mg/kg would have the added benefit of reducing lead to levels below the UCL.

This alternative is retained for consideration as a remedial action.

9.1.5.2 Administrative Remedies (Screened In)

The MCP provides for flexibility in site remediation by allowing a level of cleanup which reflects the potential for exposure to oil or hazardous material. The potential for exposure is defined by the uses and activities occurring at and near the site and the nature and accessibility of the contamination. Activity and Use Limitations establish limits and conditions on the future use of contaminated property and allow cleanups to be tailored to these uses.

Information in the Phase II Report shows that PCBs in soil poses a risk to hypothetical future residents of the Site, construction workers and facility workers on the 25 and 47 Topeka Street portion of the Site. A limitation on the future uses of the Site that prevents exposure of these receptors would achieve a condition of No Significant Risk. Suitable limitations would include:

- Prohibit future residents
- Require that future construction workers be protected by Health and Safety precautions in a manner that eliminates the pathway from source to construction worker.

9.1.6 Potentially Viable Remediation Alternatives – Lead Contaminated Soil

Table 4 presents a summary of potentially viable remediation alternatives. Table 4 has been adapted from a similar FRTR table by eliminating technologies which are clearly inapplicable to the Site (based on site specific conditions such as contaminants, media, etc.) and by adding the three columns titled “Background”, “Mass Reduction” and “NSR”, which are not provided by FRTR. Table 4 includes in-situ and ex-situ technologies that may be effective on lead in soil.

Each of the technologies listed on Table 4 is briefly described below. Unless otherwise identified, cost information provided for each technology is based upon application to the entire Site, defined by the property boundaries (with the exception of the 10,000 square foot building on 71 Topeka Street) and a depth of 6’. This amounts to a volume of approximately 10,000 cubic yards (7,700 cubic meters) of soil inclusive of the Hot Spot area. Costs calculated in this manner provide a means for comparing alternatives to each other. Actual costs may be reduced through optimization (by remediating the most heavily impacted parts of the Site.) It is assumed that the application of “high technology” remedies on a reduced scale would suffer from reverse “economy of scale”, resulting in significantly higher unit costs. Unit costs for “low technology” remedies such as excavation/off-site disposal will remain constant even if applied at a reduced scale.

9.1.6.1 In-Situ Technologies

9.1.6.1.1 In-Situ Electrokinetic Separation (Screened Out)

Electrokinetic remediation relies upon application of a low-intensity direct current through the soil between ceramic electrodes that are divided into a cathode array and an anode array. This mobilizes charged species, causing ions and water to move toward the electrodes. Metal ions (i.e. lead), ammonium ions, and positively charged organic compounds move toward the cathode. Anions such as chloride, cyanide, fluoride, nitrate, and negatively charged organic compounds move toward the anode. The current creates an acid front at the anode and a base front at the cathode. This generation of acidic condition in situ may help to mobilize sorbed metal contaminants for transport to the collection system at the cathode.

The two primary mechanisms transport contaminants through the soil towards one or the other electrodes: electromigration and electro osmosis. In electromigration, charged particles are transported through the substrate. Electro osmosis is the movement of a liquid containing ions relative to a stationary charged surface. Of the two, electromigration is the main mechanism for the ER process. The direction and rate of movement of an ionic species will depend on its charge, both in magnitude and polarity, as well as the magnitude of the electro osmosis-induced flow velocity. Non-ionic species,

both inorganic and organic, will also be transported along with the electro osmosis induced water flow.

There have been few, if any, commercial applications of electrokinetic remediation in the United States. The FRTR database reports on four pilot scale demonstrations in the US and five in Europe. The FRTR database also reports on a full scale demonstration of lead extraction at a U.S. Army firing range in Louisiana which demonstrated that concentrations of lead decreased to less than 300 mg/kg in 30 weeks of electrokinetic processing when the soils were originally contaminated as high as 4,500 mg/kg of lead.

Costs will vary with the amount of soil to be treated, the conductivity of the soil, the type of contaminant, the spacing of electrodes, and the type of process design employed. Ongoing pilot-scale studies using "real-world" soils indicate that the energy expenditures in extraction of metals from soils may be 500 kWh/m³ or more at electrode spacing of 1.0m to 1.5m. Direct costs estimates of about \$15/m³ for a suggested energy expenditure of \$0.03 per kilowatt hours, together with the cost of enhancement, could result in direct costs of \$50/m³ or more. A recent study estimated full scale costs at \$117 per cubic meter.

The cost of this technology applied to the Site at \$50 to \$117/cubic meter would be \$770,000 to \$900,900.

Based on a lack of successful applications in the US and the potentially high costs of the technology, electrokinetics is eliminated from further consideration.

9.1.6.1.2 *In-Situ Soil Flushing (Screened Out)*

In situ soil flushing is the extraction of contaminants from the soil with water or other suitable aqueous solutions. Soil flushing is accomplished by passing an injected or infiltrated extraction fluid through in-place soils. The extraction fluid is most often water, or water containing an additive to enhance contaminant solubility. The extraction fluid is applied to percolate through the soil or injected into the ground water to raise the water table into the contaminated soil zone. Contaminants are leached into the extraction fluid, which is then recovered, treated and recycled.

The technology offers the potential for recovery of metals and can mobilize a wide range of organic and inorganic contaminants from coarse-grained soils. A major risk associated with the technology is the possibility that contaminants can be mobilized from soil to groundwater and escape capture in the groundwater extraction process. For this reason, the technology should be used only where flushed contaminants and soil flushing fluid can be contained and recaptured.

The EPA reports in the FRTR database that soil flushing is a developing technology that has had limited use in the United States. Soil flushing is not effective on sites where target contaminants exist as inert or elemental solids.

The cost of soil flushing depends greatly on the type and concentration of surfactants used, if they are used at all. Rough estimates ranging from \$25 to \$250 per cubic yard have been reported. The cost of soil flushing at the Site, based on these unit costs, would be \$250,000 to \$2.5 million.

Based on its developmental status, the risk of impacting groundwater, uncertainties about its effectiveness on the inert component of lead at the Site and the cost of the technology, soil flushing is eliminated from further consideration for the Site.

9.1.6.1.3 *In-Situ Solidification/Stabilization & Remain On-Site (Screened Out)*

Solidification and stabilization are processes that immobilize contaminants in-situ by injecting reactants or stabilizing chemicals/materials to soil and leaving it in place on the Site. Immobilization is achieved by creating a matrix of impermeable soil around the contaminant or by creating a stable compound that includes the contaminant of concern. Leachability testing is typically performed to measure the immobilization of contaminants. Solidification/stabilization techniques can be used alone or combined with other treatment and disposal methods to yield a product or material suitable for land disposal or, in other cases that can be applied to beneficial use. These techniques have been used as both final and interim remedial measures.

Stabilization would not reduce the concentration of lead in soil at the Site, and would therefore not meet the requirements for a Permanent Solution. It would, however, reduce the potential for migration and might therefore reduce risk. It could be an element of a plan to achieve a Temporary Solution.

Injection costs average \$50 to \$80 per cubic meter (\$40 to \$60 per cubic yard) for shallow applications such as would be required for the Site. The cost of injection at the Site, based on these unit costs and ignoring other necessary costs, would be as much as \$600,000.

Based on the fact that stabilization does not achieve mass reduction or contribute to the other remediation objectives, stabilization in place and leaving the material on Site is eliminated from further consideration at the Site.

9.1.6.1.1 *In-Situ Stabilization Prior to Waste Generation (Screened In)*

Stabilization is a process that immobilizes contaminants in-situ by applying reactants or stabilizing chemicals/materials to soil. Immobilization is achieved by creating a matrix of impermeable soil around the contaminant or by creating a stable compound that includes the contaminant of concern. Leachability testing is typically performed to measure the immobilization of contaminants. Stabilization techniques can be used alone or combined with other treatment and disposal methods to yield a product or material

suitable for land disposal or, in other cases that can be applied to beneficial use. These techniques have been used as both final and interim remedial measures.

Stabilization of the lead identified in the soil targeted for disposal is planned on the Site prior to generating the waste to allow for disposal as a non-toxic characteristic waste.

Application costs average \$40 to \$60 per cubic yard, and would amount to approximately \$60,000 for the planned remedy. Stabilization is retained for consideration, and is a part of the selected soil removal remedy.

Ex-Situ Technologies

9.1.6.1.2 *Ex-Situ Chemical Extraction (Screened Out)*

Ex-situ chemical extraction is a technology for extracting contaminants from soil that has been excavated for treatment above ground. The technology uses an extracting chemical and differs from soil washing, which generally uses water or water with wash-improving additives. Physical separation steps are often used before chemical extraction to grade the soil into coarse and fine fractions, with the assumption that the fines contain most of the contamination. Physical separation can also enhance the kinetics of extraction by separating out particulate heavy metals, if these are present in the soil.

Solvents vary based upon the target contaminant. For lead contaminated soil, the appropriate solvent would be hydrochloric acid. In this process, soils are first screened to remove coarse solids. Hydrochloric acid is then introduced into the soil in the extraction unit. The residence time in the unit varies depending on the soil type, contaminants, and contaminant concentrations, but generally ranges between 10 and 40 minutes. The soil-extractant mixture is continuously pumped out of the mixing tank, and the soil and extractant are separated using hydrocyclones.

When extraction is complete, the solids are transferred to the rinse system. The soils are rinsed with water to remove entrained acid and metals. The extraction solution and rinse waters are regenerated using commercially available precipitants, such as sodium hydroxide, lime, or other proprietary formulations, along with a flocculent that removes the metals and reforms the acid. The heavy metals are concentrated in a form potentially suitable for recovery. During the final step, the soils are dewatered and mixed with lime and fertilizer to neutralize any residual acid.

Data presented by FRTR suggests that the cost of ex-situ chemical extraction at an “easy” site is approximately \$1,200/cubic yard. This translates to a cost of \$12 million at the Site.

Chemical Extraction is eliminated from further consideration based upon its cost and the fact that, as an ex-situ technology, it would have to compete with excavation/off-site disposal, which would be quicker, achieve greater mass reduction and be less costly.

9.1.6.1.3 *Ex-Situ Separation (Screened Out)*

Separation processes are used for removing contaminated concentrates from soils. Ex situ separation can be performed by gravity separation and sieving/physical separation but for soil treatment only sieving/physical separation is feasible.

Sieving and physical separation processes use different size sieves and screens to effectively concentrate contaminants into smaller volumes. Physical separation is based on the fact that most organic and inorganic contaminants tend to bind, either chemically or physically, to the fine (i.e., clay and silt) fraction of a soil. The clay and silt soil particles are, in turn, physically bound to the coarser sand and gravel particles by compaction and adhesion. Thus, separating the fine clay and silt particles from the coarser sand and gravel soil particles would effectively concentrate the contaminants into a smaller volume of soil that could then be further treated or disposed.

On the Site, physical separation might be used as a preliminary step to off-site disposal based on the assumption that most of the contamination is tied to the finer soil fraction, which alone may need to be treated. Separation is also useful when heavy metal contaminants occur as particulates (e.g., in small-arms ranges). One advantage of physical separation processes is that high throughputs can be achieved with relatively small equipment.

Because lead contamination on the Site is assumed to consist of particulate and chemically bound forms, a physical separation process will address only part of the target contaminants. Physical separation is eliminated from further consideration based on technical infeasibility.

9.1.6.1.4 *Ex-Situ Soil Washing (Screened Out)*

Ex situ soil separation processes (often referred to as "soil washing"), mostly based on mineral processing techniques, are widely used in Northern Europe and America for the treatment of contaminated soil. Soil washing is a water-based process for scrubbing soils ex situ to remove contaminants. The process removes contaminants from soils in one of the following two ways:

- By dissolving or suspending them in the wash solution (which can be sustained by chemical manipulation of pH for a period of time); or
- By concentrating them into a smaller volume of soil through particle size separation, gravity separation, and attrition scrubbing (similar to those techniques used in sand and gravel operations).

Soil washing systems incorporating most of the removal techniques offer the greatest promise for application to soils contaminated with a wide variety of heavy metal, radionuclides, and organic contaminants. Commercialization of the process, however, is not yet extensive.

The concept of reducing soil contamination through the use of particle size separation is based on the finding that most organic and inorganic contaminants tend to bind, either chemically or physically, to clay, silt, and organic soil particles. The silt and clay, in turn, are attached to sand and gravel particles by physical processes, primarily compaction and adhesion. Washing processes that separate the fine (small) clay and silt particles from the coarser sand and gravel soil particles effectively separate and concentrate the contaminants into a smaller volume of soil that can be further treated or disposed of. Gravity separation is effective for removing high or low specific gravity particles such as heavy metal-containing compounds (lead, radium oxide, etc.). Attrition scrubbing removes adherent contaminant films from coarser particles. However, attrition washing can increase the fines in soils processed. The clean, larger fraction can be returned to the site for continued use.

Complex mixture of contaminants in the soil (such as a mixture of metals, nonvolatile organics, and SVOCs) and heterogeneous contaminant compositions throughout the soil mixture make it difficult to formulate a single suitable washing solution that will consistently and reliably remove all of the different types of contaminants. For these cases, sequential washing, using different wash formulations and/or different soil to wash fluid ratios, may be required.

Soil washing is generally considered a media transfer technology. The contaminated water generated from soil washing are treated with the technology(s) suitable for the contaminants.

The duration of soil washing is typically short-term to medium-term.

Soil washing provides a cost effective and environmentally proactive alternative to stabilization and landfilling. Two pilot scale demonstrations were carried out at Fort Polk, Louisiana in 1996. These employed commercially available unit processes - physical separation/acid leaching systems. The system employed acetic acid as the leaching agent, and the other, hydrochloric acid. Input soil had a lead content of approximately 3,500 mg/kg. The hydrochloric acid system was most effective. Processed soil had total lead concentration of 200 mg/kg and TCLP levels for lead of approximately 2 mg/L. The throughput rate was approximately 6 tons per hour. Choice of acid leaching agent is a function of specific soil chemistry and degree of solubility required.

Information in the FRTR database suggests a unit cost of \$142/cubic yard or \$255/ton. Based on the relatively small scale of the Site it is assumed that unit costs would be

higher than estimated by FRTR. This will make costs for soil washing close to those for excavation/off-site disposal. Soil washing is eliminated based on the fact that excavation/off-site disposal would achieve greater mass reduction with less uncertainty.

9.1.6.1.5 *Ex-Situ Solidification (Screened Out)*

As is the case for in-situ solidification/stabilization (S/S), ex-situ S/S contaminants are physically bound or enclosed within a stabilized mass (solidification), or chemical reactions are induced between the stabilizing agent and contaminants to reduce their mobility (stabilization). Ex-situ S/S, however, typically requires disposal of the resultant materials.

Typical ex-situ S/S is a short-term to medium-term technology. This technology is eliminated based on the fact that off-Site disposal of the material is cheaper when the lead is stabilized prior to transportation. Off-Site stabilization would result in higher transportation and disposal costs.

9.1.6.1.5.1 Bituminization (Screened Out)

In the bituminization process, wastes are embedded in molten bitumen and encapsulated when the bitumen cools. The process combines heated bitumen and a concentrate of the waste material, usually in slurry form, in a heated extruder containing screws that mix the bitumen and waste. Water is evaporated from the mixture to about 0.5% moisture. The final product is a homogenous mixture of extruded solids and bitumen. Based on the fact that encapsulation does not achieve mass reduction or contribute to the other remediation objectives, it is eliminated from further consideration.

9.1.6.1.5.2 Emulsified Asphalt (Screened Out)

Asphalt emulsions are very fine droplets of asphalt dispersed in water that are stabilized by chemical emulsifying agents. The emulsions are available as either cationic or anionic emulsions. The emulsified asphalt process involves adding emulsified asphalts having the appropriate charge to hydrophilic liquid or semi liquid wastes at ambient temperature. After mixing, the emulsion breaks, the water in the waste is released, and the organic phase forms a continuous matrix of hydrophobic asphalt around the waste solids. In some cases, additional neutralizing agents, such as lime or gypsum, may be required. After given sufficient time to set and cure, the resulting solid asphalt has the waste uniformly distributed throughout it and is impermeable to water. Based on the fact that emulsification does not achieve mass reduction or contribute to the other remediation objectives, it is eliminated from further consideration.

9.1.6.1.5.3 Pozzolan/Portland Cement (Screened Out)

Pozzolan/Portland cement process consists primarily of silicates from pozzolanic-based materials like fly ash, kiln dust, pumice, or blast furnace slag and cement-based materials like Portland cement. These materials chemically react with water to form a solid cementitious matrix which improves the handling and physical characteristics of the waste. They also raise the pH of the water which may help precipitate and immobilize some heavy metal contaminants. Pozzolan and cement-based binding agents are typically appropriate for inorganic contaminants. The effectiveness of this binding agent with organic contaminants varies.

The EPA estimates the unit cost of ex-situ stabilization at an "easy" site at \$165/cubic yard. The cost of stabilization at the Site, based on these unit costs, would be \$1.65 million.

Based on the fact that stabilization does not achieve mass reduction or contribute to the other remediation objectives, it is eliminated from further consideration.

9.1.6.1.6 Excavation/Off-Site Disposal

9.1.6.1.6.1 Excavation of Entire Site (Screened Out)

Excavation and off-site disposal is a well proven and readily implemented technology. Prior to 1984, excavation and off-site disposal was the most common method for cleaning up hazardous waste sites. Excavation is the initial component in all ex-situ treatments.

Cost estimates for excavation and disposal range from \$300 to \$500 per ton depending on the nature of hazardous materials and methods of excavation. These estimates include excavation/removal, transportation, and disposal at a RCRA permitted facility. Additional cost of treatment at disposal facility may also be required.

The cost of excavation and disposal of Site soils from 0'-6', based on a cost of \$400/ton, would be \$4 million. Excavation of the entire Site is eliminated based on the low cost-benefit ratio for the incremental benefit of approaching background after eliminating the Hot Spot area.

9.1.6.1.6.2 Partial Site Excavation to Achieve Mass Reduction & EPC Reduction (Screened In)

The fact that soil contamination is not uniform throughout the Site suggests the possibility of limiting excavation to certain parts of the Site that would yield the greatest mass of lead per unit of soil excavated. We have considered what reduction in source area lead concentrations would be achieved with removal of the PCB impacted soils indicated in Section 9.1.5.

With arithmetic averaging of data points following removal of greater than 10 mg/kg PCB, the average residual lead concentration would be estimated to be below the UCL of 3,000 mg/kg. Partial excavation for lead mass reduction is retained for further consideration.

9.1.6.2 Administrative Remedies (Screened In)

The MCP provides for flexibility in site remediation by allowing a level of cleanup which reflects the potential for exposure to oil or hazardous material. The potential for exposure is defined by the uses and activities occurring at and near the site and the nature and accessibility of the contamination. Activity and Use Limitations establish limits and conditions on the future use of contaminated property and allow cleanups to be tailored to these uses.

Information in the Phase II Report shows that lead in soil poses a risk to hypothetical future residents of the Site, construction workers and facility workers on the 25 and 47 Topeka Street portion of the Site. A limitation on the future uses of the Site that prevents exposure of these receptors would achieve a condition of No Significant Risk. Suitable limitations would include:

- Prohibit future residents
- Require that future construction workers be protected by Health and Safety precautions in a manner that eliminates the pathway from source to construction worker.

9.1.7 Results of Initial Screening

The results of the initial screening are summarized in the table below.

Results of Initial Screening of Remedies

Source	Potential Remedy
Lead in Soil	<ul style="list-style-type: none">• Excavate entire site, or• Excavate part of site, or• AUL
PCBs in Soil	<ul style="list-style-type: none">• Excavation + AUL

For lead-contaminated soil, excavation of the Hot Spot area to reduce the site-wide lead EPC to less than the UCL of 3,000 mg/kg are retained for further consideration. Either remedy might be combined with an AUL if necessary to achieve a condition of No Significant Risk.

For PCB-contaminated soil, the option for excavation of soil in which the PCB concentration is greater than 10 ppm is retained for further consideration as development

with a building as a high occupancy use is proposed and this is required for that use. This remedy will be combined with an AUL to achieve a condition of No Significant Risk.

For petroleum-contaminated groundwater, application of an in-situ remedial additive and/or an AUL eliminating potential pathways to future exposures for building occupants is retained for further consideration.

9.2 Detailed Evaluation of Alternatives Which Meet Performance Standards

The MCP requires that a detailed evaluation of remedial action alternatives identified by the initial screening shall be conducted to provide the basis for the selection of the remedial action alternative. The detailed evaluation shall evaluate and compare different remedial alternates using the criteria described in MCP Section 40.0858.

MCP Section 40.0857 specifies that a detailed evaluation is not required in those cases where a remedial action alternative identified during the initial screening:

- a) is proven to be effective in remediating the types of oil and hazardous material present at the disposal site, based upon experience gained at other disposal sites with similar site and contaminant conditions;
- b) results in the reuse, recycling, destruction, detoxification, treatment or any combination thereof of the oil and hazardous material present at the disposal site;
- c) can be implemented in a manner that will not pose a significant risk of harm to the health, safety, public welfare or the environment, as described in MCP Section 40.0900; and
- d) is likely to result in the reduction and/or control of oil and/or hazardous material at the disposal site to a degree and in a manner such that the requirements of a Class A Response Action Outcome will be met.

The alternatives retained for detailed evaluation are a combination of administrative control (AUL) and excavation of lead and PCB contaminated soil. Based upon information in the TRFR database, the applicability of each of the criteria specified above for eliminating the detailed evaluation is indicated below.

Alternative	MCP Section 40.0857 criteria			
	Proven Technology	Mgt of OHM	Implementation	Class A Likely
	40.0857(a)	40.0857(b)	40.0587(c)	40.0857(d)
Excavation	√	√	√	√
AUL	√	NA	√	√

All the exemption criteria are applicable to each of the alternatives evaluated. A detailed evaluation as described in MCP Section 40.0858 is not required. However, the basis for the selection of the remedies of choice is explained in Section 9.3 below.

9.3 Selection of Remedial Alternative

Table 5 is a short-list of the selected remedial alternatives. The elements of the selected alternative and the basis for the selection are discussed below.

9.3.1 PCBs in Soil

Until EPA approval of the Self Implementing Plan for remediation of the PCB-contaminated area, the area will remain isolated by virtue of a locked chain-link fence with signage surrounding the area.

Upon receipt of approval of the SIP from EPA, the SIP plan will be implemented. The SIP elements are expected to include (1) excavation of all soil in which the PCB concentration is greater than 10 ppm, (2) monitoring of air during excavation of PCB-contaminated soil, (3) post-excavation sampling of the area for confirmation purposes, (4) additional excavation if warranted by the results of confirmatory sampling, (5) disposal of PCB-contaminated soil and (6) site restoration with clean fill. As part of the Site restoration task a geo-textile layer will be placed at the bottom of the excavation prior to the placement of backfill. The geo-textile will serve as a marker in the event that future excavation occurs in the area.

9.3.2 Lead in Soil

Two alternatives are retained for evaluation – excavation of the entire site from 0-6' and partial excavation of the site to reduce mass and reduce the EPC to less than 1,800 ppm. Each is discussed below.

9.3.2.1 Excavation of the Entire Site

Excavation of the entire site from 0-6' would require the removal and replacement of approximately 10,000 cubic yards or 16,000 tons of lead contaminated soil, half of which is assumed to be toxic characteristic hazardous waste by virtue of the fact that it would likely fail a TCLP test. This alternative would require detailed engineering and the development of a General Contractor's Scope of Work on a Site-wide scale with drawings, procurement of the GC contract, implementation of the work (pavement demolition, soil excavation and disposal, procurement, placement and compaction of clean fill, stockpile analysis and confirmatory sampling).

The total estimated cost of this alternative, based on an order of magnitude estimate, is at least \$6 million.

9.3.2.2 Partial Excavation of the Site

Excavation of the part of the site which is most highly lead contaminated (Hot Spot Area) from 0-6' would require the removal and replacement of up to 1,200 yards or 1,900 tons of lead contaminated soil, most of which is assumed to be hazardous by virtue of the fact that it would fail a TCLP test. The efficiency of implementation of this alternative would be increased by virtue of the fact that the area designated for excavation coincides with the area designated for excavation of PCB-contaminated soil. Since there is no alternative to the excavation of PCB-contaminated soil, the incremental costs for excavation of lead contaminated soil are smaller than would be the case without the PCB-contaminated soil. However, this is not the most efficient means of using targeted excavation to reduce lead concentrations on the site.

The total estimated cost of this alternative, based on an order of magnitude estimate, is approximately \$1 million.

Soil Removal and Disposal	800 cubic yards	\$670,000
Contingency	400 cubic yards	<u>\$330,000</u>
		\$1,000,000

9.4 Feasibility Evaluations

9.4.1 Feasibility of a Permanent Solution

It is expected that the selected Remedial Action Alternative will decrease contaminants of concern to levels below UCLs on the Site. The goal of the selected Remedial Action Alternative is a Permanent Solution and will be implemented when the required regulatory approvals are received. The implementation of the selected Remedial Action Alternative will require approval from the EPA.

9.4.2 Feasibility of Achieving or Approaching Background

9.4.2.1 Categorical Feasibility Considerations

M.G.L. c. 21E Section 3A, paragraph (g) requires the implementation of Permanent Solutions at all disposal sites. Where feasible, a permanent solution shall include a measure or measures designed to reduce to the extent possible the level of oil or hazardous materials in the environment to the level that would exist in the absence of the site of concern. Chapter 21E specifies the criteria for determining to what extent it is feasible to reduce contaminant levels. These criteria are the basis for evaluating both the feasibility of implementing permanent solutions and achieving or approaching background. The evaluation criteria applicable to background feasibility include "... whether the benefits of the remedial actions to achieve or approach background justify the costs or risks associated with those actions". MCP Section 40.0860(6) provides additional detail on conducting an evaluation to determine whether feasible to reduce concentrations at a disposal site to levels that achieve or approach background. This

section states that achieving or approaching background shall be considered feasible unless "... *the incremental cost of conducting the remedial action alternative is substantial and disproportionate to the incremental benefit or risk reduction, environmental restoration, and monetary and non-pecuniary values...*".

MassDEP promulgated guidance on the cost-benefit aspect of feasibility evaluations under the MCP on July 16, 2004. The guidance is based on qualitative and semi-quantitative measures of benefits, e.g., identifying situations for which additional remediation to reduce/detoxify contaminants and/or exposure pathways would be most likely to result in the greatest risk reduction or would be most readily achievable and cost-effective. MassDEP's guidance is based on the assumption that the maximum benefit from remedial actions to achieve or approach background would be in addressing contaminants that are likely to be persistent in the environment and located in areas where exposure to human and ecological receptors are more likely (i.e., S-1 soil and/or GW-1, GW-2 and GW-3 groundwater). It is MassDEP's position that for certain types of pollutants in certain types of environmental settings, remedial actions to achieve or approach background may be considered categorically infeasible (meaning that the incremental cost of conducting a remedial action would be substantial and almost always disproportionate to the incremental benefit). For these cases, documentation that disposal site conditions are consistent with the criteria provided in the guidance document would be sufficient to support a conclusion that achieving or approaching background is not feasible. The specified criteria are:

- Excavations under permanent structures
- Actions that will interrupt public service or threaten public safety.
- Remediation of degradable (non-persistent) contaminants
- Remediation of persistent contaminants in S-2 and S-3 soils.

Of these, the first and fourth are potentially applicable to parts of the Site:

- Although there is no information suggesting that contamination exists under the building on the Site, if such contamination were present it would be categorically infeasible to excavate it.
- Lead and PCBs are persistent contaminants. The implementation of the AUL provisions planned will have the following effects on site use:
 - Children will be present only as trespassers or occasional visitors. As such they will be low frequency receptors. The nature of activity of children on the site will make the intensity of their use "low" – no digging, gardening or sports. Under these conditions soil categories for children will be S-2 for soil from 0-3' and S-3 for soil below 3'.
 - Adults will be present as facility workers and occasional visitors. Facility workers will meet the definition of "high frequency" users (work at the site on a continuing basis). The intensity of use for adults will not include

soil disturbing activities such as gardening, digging or recreational sports. Intensity of use is low. Under these conditions, soil categories for adults will be S-2 for soil from 0-3' and S-3 for soil below 3'.

Additionally, soil underlying the Site and surrounding area consists of urban fill. In fact, the area is documented Chapter 91 Made Land established during permitted filling done throughout the South Bay area in the late 1800s. Following the planned removal of soil from the Hot Spot, there is no small increment of soil that could be removed to approach or achieve background. As an example, the benefit of removing even 20 percent more material would provide only a negligible benefit in terms of mass reduction.

Based on the above, it is concluded that it is categorically infeasible to achieve background on the Site.

9.4.2.2 Economic Feasibility Considerations

As is demonstrated above, the feasible alternative with the best probability of achieving background soil conditions is to excavate contaminated soil and replace it with clean soil. Assuming that the cost of excavating and disposing of contaminated soil and replacing it with clean soil is proportional to the volume of soil excavated, one could compare the volume of soil excavated to achieve a condition of No Significant Risk to the volume of soil to be excavated to achieve background. If the latter is more than 20 percent of the former, it can be assumed that the cost of achieving background would be more than 20 percent of the cost to achieve a condition of No Significant Risk.

As has been discussed above, a condition of No Significant Risk can be achieved with the excavation of up to 1,200 cubic yards of lead/PCB contaminated soil from the SIP Area. Assuming that excavation of entire soil column is not feasible technically or economically, the alternative of reducing lead contamination by excavating the top 6 feet of soil was considered. The volume of soil in the top 6 feet across the Site with exception of the Hot Spot area and under the existing building is approximately 8,800 yards, a volume which far exceeds the volume required to achieve No Significant Risk.

It is concluded that the cost of remediation to achieve or approach background is "substantial and disproportionate" and should be considered infeasible.

10 REMEDIAL ACTION PLAN

MCP Section 40.0861 defines the contents of a Remedial Action Plan. Each of the requirements listed in Section 40.0861 is addressed in this Phase III Report in the sections above. A summary of the information above relative to the requirements of a Remedial Action Plan is presented below.

10.1 Remedial Action Alternatives Identified

10.1.1 PCBs in Soil

Upon receipt of approval of the SIP from EPA, the SIP plan for excavation and off-Site disposal of up to approximately 1,200 yards (including 400 cubic yards carried as contingency) of impacted soil will be implemented. The SIP elements are expected to include (1) excavation of all soil in which the PCB concentration is greater than 10 ppm, (2) monitoring of air during excavation of PCB-contaminated soil, (3) post-excavation sampling of the area for confirmation purposes, (4) additional excavation if warranted by the results of confirmatory sampling, (5) disposal of PCB-contaminated soil and (6) site restoration with clean fill. As part of the Site restoration task a geo-textile layer will be placed at the bottom of the excavation prior to the placement of backfill. The geo-textile will serve as a marker in the event that future excavation occurs in the area.

10.1.2 Lead in Soil

Excavation of the part of the site which is most highly lead impacted (Hot Spot Area) from 0-6' would require the removal and replacement of up to 1,200 yards of lead contaminated soil, most of which is assumed to be hazardous by virtue of the fact that it would fail a TCLP test. The efficiency of implementation of this alternative would be increased by virtue of the fact that the area designated for excavation coincides with the area designated for excavation of PCB-contaminated soil. Since there is no alternative to the excavation of PCB-contaminated soil, the incremental costs for excavation of lead contaminated soil are smaller than would be the case without the PCB-contaminated soil. However, this is not the most efficient means of using targeted excavation to reduce lead concentrations on the site.

10.2 Steps to Implement a Permanent Solution

MCP Section 40.0861(2)(h) requires that where the intent of the selected remedial action alternative is to achieve a Permanent Solution, the Responsible Party must provide a detailed description of definitive and enterprising steps to identify and develop an alternative that is a likely Permanent Solution and a schedule for the implementation of such steps. For the Site a Permanent Solution has been identified but cannot be implemented immediately due to regulatory requirements, as explained in Section 3.3.

The schedule for implementation of the Permanent Solution is based upon the assumption that EPA approval for implementation of the SIP will be obtained within 60 days of submittal:

Event/Task	Start	Finish
GC Bids (prepare, solicit, evaluate)	February 2010	March 2010
EPA approval of SIP	March 2010	April 2010
Phase IV RIP for implementation of SIP	March 2010	April 2010
Award contract	March 2010	April 2010
Implement SIP and other remedial steps	May 2010	July 2010
AUL (prepare, notice, record, etc.)	May 2010	July 2010
RAO Statement	July 2010	September 2010

This estimated schedule is intended to meet the deadlines established in MassDEP's Administrative Consent Order issued in March 2009. These deadlines are summarized below:

Event/Task	Due
Phase III Report	February 15, 2010
Phase IV RIP	May 15, 2010
RAO Statement	December 15, 2011

11 PUBLIC INVOLVEMENT

The copy of the public notice required for Comprehensive Response Action Phase Reports is included as Appendix C.

Figures



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NOTE:

LOCUS CIRCLES FOR 500 FT
 AND 0.5 MILE RADIUS

IRWIN Engineers, Inc.
Chemical and Environmental
 33 West Central Street
 Natick, MA 01760
 (508) 653-8007

DRAWING BY:

CHECKED BY:

APPROVED BY:

CLIENT

Cummings & Associates LLC
 c/o 8153 North Cedar Avenue #118-B
 Fresno, CA 93720

TITLE

458-01 SITE LOCUS

SIZE
B

CAGE CODE

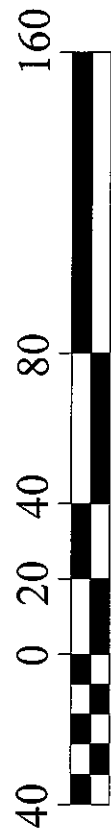
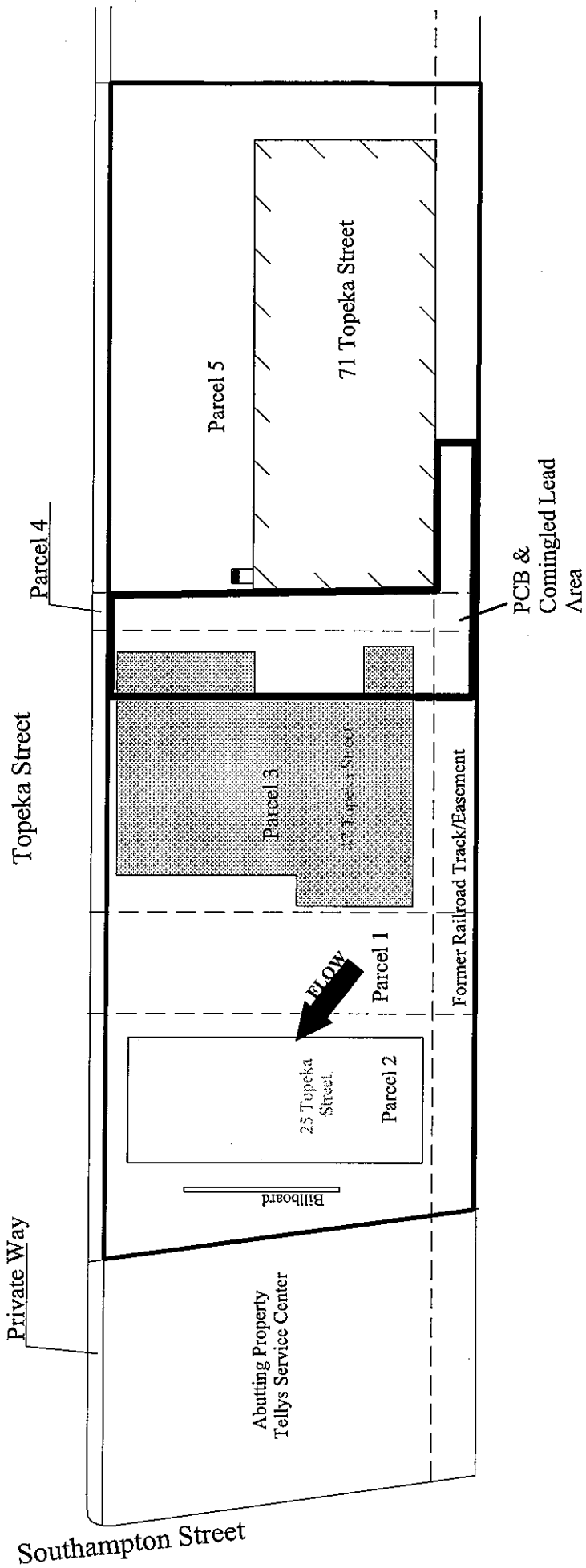
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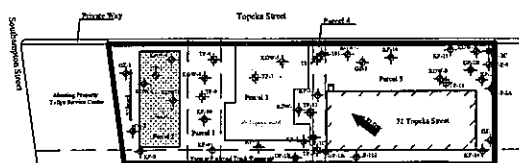
GRAPHIC SCALE

Notes:

- Source References:
1) GZA GeoEnvironmental, Inc.
Exploration Location Plan, 2/9/1999
2) Boston Survey, Inc.
AUL Plan Figure, 6/24/2005

This drawing is a graphical representation only and should not be used as a survey.

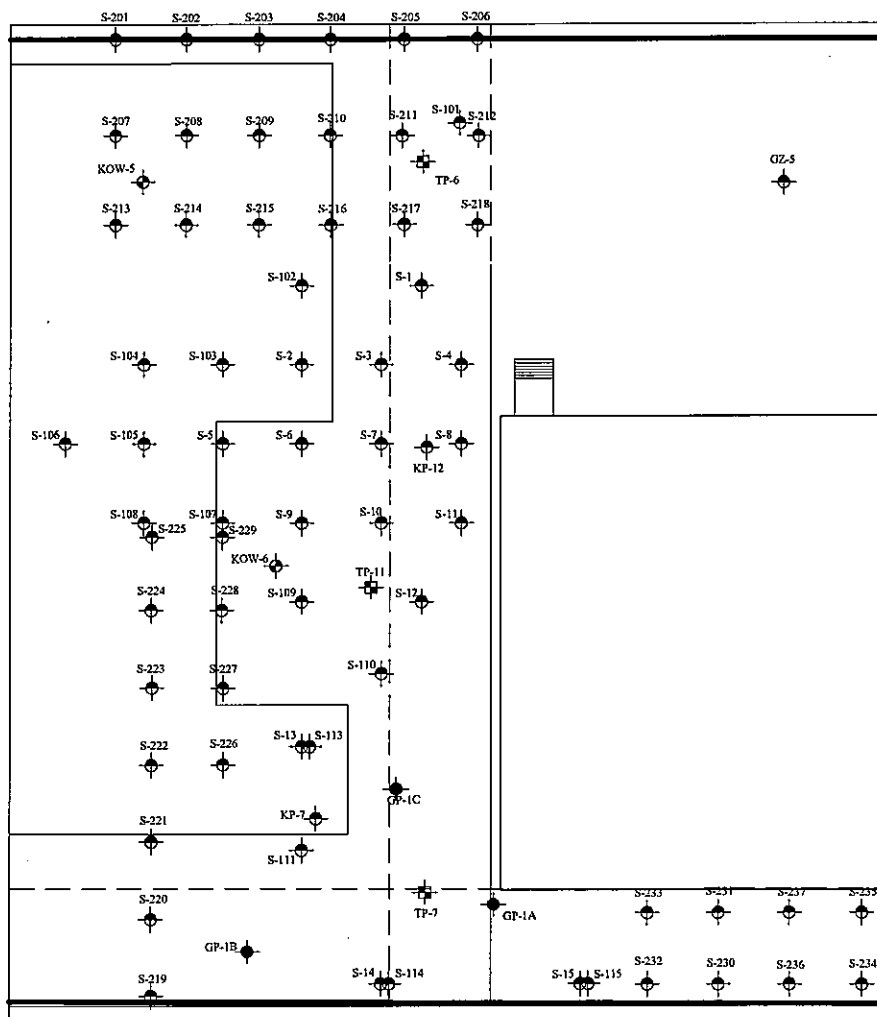
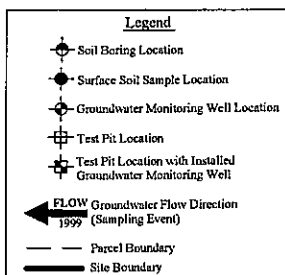
IRWIN Engineers, Inc. <i>Chemical and Environmental</i> 33 West Central Street Natick, MA 01760 (508) 653-8007		CLIENT LMB Partners, LP 50 Battery Street, #312 Boston, MA 02109			
DRAWING BY: MJD		TITLE FIGURE 2 SITE PLAN			
CHECKED BY: JAI	SIZE B	CAGE CODE	DWG NO 45801D001	DATE	SHEET
APPROVED BY:	SCALE	DATE	SHEET		



40 0 20 40 80 160
GRAPHIC SCALE

Topeka Street

Sidewalk



5 0 2.5 5 10 20
INCH SCALE

IRWIN Engineers
CHEMICAL & ENVIRONMENTAL
33 West Central Street
Natick, MA 01760
(508) 653-8007

CLIENT		LMB Partners, LP 50 Battery Street, #312 Boston, MA 02109		
TITLE		FIGURE 3 SAMPLING LOCATIONS AS OF NOVEMBER 2009		
DRAWING BY:	GWM	SIZE	A	REV
CHECKED BY:	DEM	CAGE CODE	DWG NO	45801AD001PP4.TCW
APPROVED BY:	JAI	SCALE	GRAPHIC	DATE 12-02-2009
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Tables

TABLE 1 - PCBs in Soil

Topeka Street, Roxbury
October 17, 2007

Sample ID	S1	S2	S3	S4	S5	S6	S7	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)										
0-2	10	50	56	41	80	32	45	2	2	100
2-4	<0.03	<0.04	<0.03	<0.04	<0.03	1,616	5.6	2	2	100
4-6	14	<0.04	<0.04	<0.06	<0.03	4.5	0.39	2	2	100
6-8	<0.03	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	2	2	100

Sample ID	S8	S9	S10	S11	S12	S13/S14/S15	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)									
0-2	33	9.1	129	15	12	58	2	2	100
2-4	<0.03	35	9.8	0.63	1,957	6.8	2	2	100
4-6	0.57	0.90	7.1	1.4	68	2.8	2	2	100
6-8	<0.04	<0.03	<0.04	<0.04	<0.04	<0.04	2	2	100

¹ All concentrations in ppm

² Bold- Concentrations greater than 10 ppm

IRWIN Engineers, Inc.

12/10/2009

458-01 S03 Soil PCB and Pb Volumes Oct08.xls
Soil-PCBs-Oct07

TABLE 1.2 - Total Lead in Soil

Topeka Street, Roxbury
October 17, 2007

Sample ID	S1	S2	S3	S4	S5	S6	S7	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)										
0-2	14,400	107,000	74,400	104,000	106,000	87,400	94,800	300	300	3,000
2-4	228	1,060	561	1,030	1,300	50,900	11,700	300	300	3,000
4-6	4,340	300	1,080	1,470	927	8,020	1,350	300	300	3,000
6-8	550	341	333	538	153	116	1,220	300	300	3,000

Sample ID	S8	S9	S10	S11	S12	S13/S14/S15	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)									
0-2	91,800	88,000	33,500	53,600	15,300	94,600	300	300	3,000
2-4	1,440	115,000	1,200	3,870	57,700	9,890	300	300	3,000
4-6	3,250	27,600	7,080	1,140	13,700	4,340	300	300	3,000
6-8	161	149	479	503	591	282	300	300	3,000

¹ All concentrations in ppm

IRWIN Engineers, Inc.

12/10/2009

458-01 S03 Soil PCB and Pb Volumes Oct08.xls
Soil-Pb-Oct07

TABLE 2 - PCBs in Soil

Topeka Street, Roxbury
December 13, 2007

Sample ID	S101	S102	S103	S104	S105	S106	S107	S108	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs unless otherwise noted)											
0-2	8.3	33	11	0.25	N/A	N/A	2.1	0.53	2	2	100
2-4	0.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	100
0-4					5.0						
0-3 ft boring (above grade rubble)						0.24					
3-5 ft boring (0-2 ft bgs)						<0.04					

Sample ID	S109	S110	S111	S112	S113	S114	S115	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)										
0-2	25	51	1.8	33	5.9	51	19	2	2	100
2-4	N/A	1350	N/A	0.15	<0.04	1.3	14	2	2	100

¹ All concentrations in ppm

² Bold- Concentrations greater than 10 ppm

IRWIN Engineers, Inc.

12/10/2009

458-01 S03 Soil PCB and Pb Volumes Oct08.xls
Soil-PCBs-Dec07

TABLE 3 - PCBs in Soil

Topeka Street, Roxbury
October 12, 2009 - October 13, 2009

Sample ID	S-201	S-202	S-203	S-204	S-205	S-206	S-207	S-208	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	2.3	0.7	9.0	11	4.7	27	0.3		2	2	100
2-4	2.8	0.9	ND[0.02]	44	3.7	15	0.5	ND[0.02]	2	2	100
4-6	0.05			ND[0.02]		0.1	0.1		2	2	100
6-8	NC		NC		NC	NC	NC		2	2	100

Sample ID	S-209	S-209 DUP	S-210	S-211	S-212	S-213	S-214	S-215	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	17	7.5		92	24	0.9		11	2	2	100
2-4	ND[0.02]	NC	8.7	0.2	2.6	0.5	2.4	0.1	2	2	100
4-6		NC							2	2	100
6-8	NC	NC		NC	NC	NC		NC	2	2	100

Sample ID	S-216	S-217	S-218	S-219	S-220	S-221	S-222	S-223	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2		18	5	0.1	1	1.7	44	97	2	2	100
2-4	4.1	1.8	1.4	ND[0.02]	0.1	2.1	0.8	42	2	2	100
4-6								0.1	2	2	100
6-8		NC	NC	NC		NC	NC	NC	2	2	100

Sample ID	S-224	S-225	S-226	S-227	S-228	S-229	S-230	S-231	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	5.3	2.1					3	10	2	2	100
2-4	0.03	0.05					ND[0.02]	2.2	2	2	100
4-6								ND[0.02]	2	2	100
6-8			NC	NC		NC	NC	NC	2	2	100

Sample ID	S-232	S-233	S-234	S-235	S-236	S-237	MS	MS DUP	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	27	20							2	2	100
2-4	ND[0.02]	23							2	2	100
4-6		6.3							2	2	100
6-8	NC		NC	NC	NC	NC			2	2	100

¹All concentrations in ppm

²Bold- Concentrations greater than 10 ppm

³Blank cells are samples that were not analyzed

⁴ NC- Samples not collected

IRWIN Engineers, Inc.

12/10/2009

458-01 S04 Soil PCB and Pb Data Nov09.xlsx
Soil-PCBs-Nov09

TABLE 3.2 - Pb in Soil

Topeka Street, Roxbury
October 12, 2009 - October 13, 2009

Sample ID	S-201	S-202	S-203	S-204	S-205	S-206	S-207	S-208	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	5,420	2,550	4,200	1,520	2,010	7,710	3,260		300	300	3,000
2-4	5,290	1,630	3,600	13,800	3,360	6,560	3,150		300	300	3,000
4-6	290						2,340		300	300	3,000
6-8	NC		NC		NC	NC	NC		300	300	3,000

Sample ID	S-209	S-209 DUP	S-210	S-211	S-212	S-213	S-214	S-215	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	27,100	23,000		7,700				43,600	300	300	3,000
2-4	718	NC		6,670				1,980	300	300	3,000
4-6		NC							300	300	3,000
6-8	NC	NC		NC	NC	NC		NC	300	300	3,000

Sample ID	S-216	S-217	S-218	S-219	S-220	S-221	S-222	S-223	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2		10,700		1,280	46,200	869	63,000	57,300	300	300	3,000
2-4		7,330		105	2,760	11,900	1,480	126,000	300	300	3,000
4-6									300	300	3,000
6-8		NC	NC	NC	NC	NC	NC	NC	300	300	3,000

Sample ID	S-224	S-225	S-226	S-227	S-228	S-229	S-230	S-231	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	81,700	89,700							300	300	3,000
2-4	4,150	7,480							300	300	3,000
4-6									300	300	3,000
6-8			NC	NC		NC	NC	NC	300	300	3,000

Sample ID	S-232	S-233	S-234	S-235	S-236	S-237	MS	MS DUP	S-3/GW-2	S-3/GW-3	UCL
Interval (ft bgs)											
0-2	17,000	1,990							300	300	3,000
2-4	76	3,400							300	300	3,000
4-6									300	300	3,000
6-8	NC		NC	NC	NC	NC			300	300	3,000

¹All concentrations in ppm

²Blank cells are samples that were not analyzed

³NC- Samples not collected

IRWIN Engineers, Inc.

12/10/2009

458-01 S04 Soil PCB and Pb Data Nov09.xlsx
Soil-Pb-Nov09

Table 4
Treatment Technology Screening Matrix
(Based upon the Federal Remediation Technology Roundtable)

Technology	Status	Availability	Reliability	Cleanup Time	Cost	In-Situ/Ex-Situ	Can achieve background	Mass Reduction	Can Achieve NSR
In-Situ									
Electrokinetic Separation	B	B	B	B	C	A	C	A	A
Soil Flushing	B	A	C	C	C	A	C	A	A
Solidification/Stabilization	A	A	A	A	A	A	C	C	C
Ex-Situ									
Chemical Extraction	A	A	C	C	C	C	C	A	A
Separation	A	A	A	A	A	C	C	A	A
Soil Washing	A	A	A	A	A	C	C	A	A
Solidification	A	A	A	A	A	C	C	A	C
Excavation/Off-Site Disposal	A	A	A	A	A	C	A	A	A
Partial Excavation/Off-Site Disposal	A	A	A	A	A	C	A	A	A

Definition of Symbols:

Definition of Symbols:									
Status:									
Full scale demonstrations completed	A								
Pilot scale demonstrations completed	B								
Undemonstrated	C								
Availability									
Fewer than two vendors	A								
2-4 vendors	B								
More than 4 vendors	C								
Reliability									
High reliability, low maintenance	A								
Average reliability, average maintenance	B								
Low reliability, high maintenance	C								
Cleanup Time									
< 1 year in-situ, < .5 year ex-situ	A								
1-3 years in-situ, .5-1 year ex-situ	B								
> 3 years in-situ, > 1 year ex-situ	C								
Cost									
< \$100/ton	A								
\$100 - \$300/ton	B								
> \$300/ton	C								
Technology Type									
In-Situ	A								
Ex-Situ	C								
Ability to Achieve Background									
Capable of achieving background	A								
Not capable of achieving background	C								
Ability to Reduce Mass									
Yes	A								
No	C								
Ability to Achieve NSR									
Yes	A								
Maybe	B								
No	C								

Table 5
Results of Initial Screening of Remedies

Source	Potential Remedy
PCBs in Soil	<ul style="list-style-type: none"> • Excavation + AUL
Lead in Soil	<ul style="list-style-type: none"> • Excavate entire site • Excavate part of site • AUL

STATEMENT OF LIMITATIONS AND CONDITIONS

Attachment to Opinion of Massachusetts Licensed Site Professional

Irwin Engineers, Inc.

Name of Licensed Site Professional:	J. Andrew Irwin, President
LSP Registration Number:	9997
Date of Opinion:	February 16, 2010
Client to Whom Opinion was Rendered:	LMB PARTNERS, LIMITED PARTNERSHIP
Date of Agreement between Irwin Engineers and Client pursuant to which Opinion was Rendered:	October 10, 2009
Response Tracking No./Site No.:	RTN #3-19130

This Statement of Limitations and Conditions is an integral part of, and is incorporated by reference into, the Opinion of Massachusetts Licensed Site Professional referenced above.

Limitations

1. Purpose of Opinion

- A. This Opinion is being provided in compliance with the requirements set forth in the Massachusetts Contingency Plan ("MCP"), 310 CMR 40.0000 et seq. Specifically, the LSP has prepared this Opinion at the request of the Client identified above as part of a Response Action Outcome Statement. This stated purpose has been a significant factor in determining the scope and level of services required to render this Opinion.
- B. Should the purpose for which this Opinion is to be used change, this Opinion shall no longer be valid.

2. General

This Opinion was prepared for the sole and exclusive use of the Client, subject to the provisions of the MCP. Except for our Client, their attorneys, banker, or insurance carriers, no other party is entitled to rely in any way on the conclusions, observations, specifications, or data contained herein without the express written consent of Irwin Engineers, Inc. and the LSP who rendered this opinion. This Opinion was prepared pursuant to an Agreement between Irwin Engineers, Inc. and the Client referenced above which defines the scope of work and sets out agreements regarding waivers of consequential damages, limitations on liability, and other important conditions and restrictions pursuant to which the Opinion is rendered. Any use of this Opinion by anyone other than Client, or any use of this Opinion by Client or others for any purpose other than the stated purpose set forth above, without the LSP's review and the written authorization of Irwin Engineers, Inc. and the LSP, shall be at the user's sole risk, and neither Irwin Engineers, Inc. nor the LSP shall have any liability or responsibility therefore.

3. Scope of Services

The observations and conclusions described in this Opinion are based solely on the Services provided pursuant to the Agreement with the Client and any approved additional services authorized by Client. Without limitation of any other applicable limitations or conditions, neither Irwin Engineers, Inc. nor the LSP shall be liable for the existence of any condition, the discovery of which would have required the performance of services not authorized under the Agreement. To the best of the knowledge and belief of Irwin Engineers, Inc. and the LSP who signed this Opinion, no inquiry of an attorney-at-law having being made, no laws, regulations, orders, permits or approvals are applicable to the response actions to which this opinion relates except, if and to the extent applicable, M.G.L. c.21A, Sections 19-19J, 309CMR, M.G.L. c. 21 E and 310 CMR 40.0000. Accordingly, this opinion is not intended to and does not address compliance with any other laws, regulation, orders, permits or approvals.

4. Changed Circumstances

The passage of time may result in changes in technology, economic conditions or regulatory standards, manifestations of latent conditions, or the occurrence of future events which would render this Opinion inaccurate or otherwise inapplicable. Neither Irwin Engineers, Inc. nor the LSP shall be liable or responsible for the consequences of any such changed circumstances or conditions on the accuracy of this Opinion. In addition, under no circumstances shall the Client nor any other person or entity rely on the information or conclusions contained in this Opinion after six months from its date of submission without the express written consent of Irwin Engineers, Inc. and the LSP. Reliance on the Opinion after such period of time shall be at the user's sole risk.

5. Should Irwin Engineers, Inc. or the LSP be required or requested to review or authorize others to use this Opinion after its date of submission, Irwin Engineers, Inc. shall be entitled to additional compensation at then existing rates or such other terms as may be agreed upon between Irwin Engineers, Inc. and the Client. Nothing herein contained shall be deemed to require Irwin Engineers, Inc. or the LSP to undertake any such review or authorize others to use this Opinion.

6. The conclusions stated in this Opinion are based upon [check and initial appropriate boxes]: 2/16/10

- ☒ Visual inspection of existing physical conditions;
- ☒ Review and interpretation of Site history and Site usage information which was made available or obtained within the scope of work authorized by the Client;
- ☒ Information provided by the Client;
- ☒ Information and/or analyses for designated substances or parameters provided by an independent testing service or laboratory on a limited number of samples;
- ☒ A limited number of subsurface explorations made on dates indicated in documentation supporting this Opinion;
- ☐ Other _____

upon which the LSP has relied and presumed accurate, and upon which the LSP is entitled to reasonably rely. The LSP was not authorized and did not attempt to independently verify the accuracy or completeness of information or materials received from the Client and/or from laboratories and other third parties during the

performance of its services. Neither Irwin Engineers, Inc. nor the LSP shall be liable for any condition, information, or conclusion, the discovery of which required information not available to the LSP or for independent investigation of information provided to the LSP by the Client and/or independent third parties.

7. This Opinion is rendered for the limited purpose stated above, and is not and should not be deemed to be an opinion concerning the compliance of any past or present owner or operator of the Site with any federal, state or local law or regulation. **No warranty or guarantee, whether express or implied, is made by this opinion, and any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. Without limiting the generality of the foregoing, no warranty or guarantee is made that all contamination at a Site or sources or contamination has been detected or identified, that any action or recommended action will achieve all of its objectives, or that this Opinion or any action as to which this Opinion relates will be upheld by any audit conducted by the DEP or any other party.**

APPENDIX B

Analytical Laboratory Reports

Report Date:
18-Jan-08 16:28



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Irwin Engineers, Inc.
33 West Central Street
Natick, MA 01760
Attn: Dan Marsh

Project: Topeka - Roxbury, MA
Project 458-01/004

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA72347-01	S101-0-2	Soil	13-Dec-07 10:25	14-Dec-07 17:45
SA72347-02	S101-2-4	Soil	13-Dec-07 10:25	14-Dec-07 17:45
SA72347-03	S102-0-2	Soil	13-Dec-07 09:25	14-Dec-07 17:45
SA72347-04	S103-0-2	Soil	13-Dec-07 09:30	14-Dec-07 17:45
SA72347-05	S104-0-2	Soil	13-Dec-07 09:45	14-Dec-07 17:45
SA72347-06	S105-0-4	Soil	13-Dec-07 09:55	14-Dec-07 17:45
SA72347-07	S106-0-3	Soil	13-Dec-07 10:10	14-Dec-07 17:45
SA72347-08	S106-3-5	Soil	13-Dec-07 10:10	14-Dec-07 17:45
SA72347-09	S107-0-2	Soil	13-Dec-07 09:40	14-Dec-07 17:45
SA72347-10	S108-0-2	Soil	13-Dec-07 10:00	14-Dec-07 17:45
SA72347-11	S109-0-2	Soil	13-Dec-07 09:15	14-Dec-07 17:45
SA72347-12	S110-0-2	Soil	13-Dec-07 08:30	14-Dec-07 17:45
SA72347-13	S110-2-4	Soil	13-Dec-07 08:30	14-Dec-07 17:45
SA72347-14	S111-0-2	Soil	13-Dec-07 08:55	14-Dec-07 17:45
SA72347-15	S112-0-2	Soil	13-Dec-07 11:15	14-Dec-07 17:45
SA72347-16	S112-2-4	Soil	13-Dec-07 11:15	14-Dec-07 17:45
SA72347-17	S113-0-2	Soil	13-Dec-07 09:05	14-Dec-07 17:45
SA72347-18	S113-2-4	Soil	13-Dec-07 09:05	14-Dec-07 17:45
SA72347-19	S114-0-2	Soil	13-Dec-07 08:45	14-Dec-07 17:45
SA72347-20	S114-2-4	Soil	13-Dec-07 08:45	14-Dec-07 17:45
SA72347-21	S115-0-2	Soil	13-Dec-07 11:05	14-Dec-07 17:45
SA72347-22	S115-2-4	Soil	13-Dec-07 11:05	14-Dec-07 17:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Please note that this report contains 37 pages of analytical data plus Chain of Custody document(s).

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110

Connecticut # PH-0777

Florida # E87600/E87936

Maine # MA138

New Hampshire # 2538/2972

New Jersey # MA011/MA012

New York # 11393/11840

Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.

President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NH-2972, NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

The samples were received @ 2.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082

Spikes:

7121524-MS1 *Source: SA72347-04*

Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

2,2',3,3',4,4',5-Heptachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',3,4',5,5',6-Heptachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl

7121524-MSD1 *Source: SA72347-04*

Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.

2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',3,4',5,5',6-Heptachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
3,3',4,4',5,5'-Hexachlorobiphenyl
3,3',4,4'-Tetrachlorobiphenyl

Duplicates:

7121524-DUP1 *Source: SA72347-04*

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
2,2',3,3',4,4',5,6-Octachlorobiphenyl
2,2',3,3',4,4'-Hexachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',3,4,5'-Pentachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl
2,2',4,5'-Tetrachlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl
2,2',5'-Tetrachlorobiphenyl
2,3,3',4,4',5-Hexachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl
3,3',4,4',5-Pentachlorobiphenyl
3,3',4,5,5'-Pentachlorobiphenyl

Samples:

SA72347-09 *S107-0-2*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

SA72347-11RE1 *S109-0-2*

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

SA72347-12RE1 *S110-0-2*

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

SA72347-13 *S110-2-4*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SA72347-13RE1 *S110-2-4*

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

Decachlorobiphenyl (Sr)

Sample Identification**S101-0-2**

SA72347-01

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 10:25

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.5	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	30.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.5	1	"	"	"	"	"
12672-29-6	PCB 1248	2,330		µg/kg dry	30.5	1	"	"	"	"	"
11097-69-1	PCB 1254	3,680		µg/kg dry	30.5	1	"	"	"	"	"
11096-82-5	PCB 1260	2,310		µg/kg dry	30.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	102		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.6		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

Sample Identification
S101-2-4
SA72347-02

Client Project #
458-01/004

Matrix
Soil

Collection Date/Time
13-Dec-07 10:25

Received
14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.6	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11096-82-5	PCB 1260	841		µg/kg dry	32.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	56		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	74		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	82.1		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

Sample Identification**S102-0-2**

SA72347-03

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:25

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.9	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.9	1	"	"	"	"	"
12672-29-6	PCB 1248	10,600	E	µg/kg dry	30.9	1	"	"	"	"	"
11097-69-1	PCB 1254	3,820		µg/kg dry	30.9	1	"	"	"	"	"
11096-82-5	PCB 1260	7,610	E	µg/kg dry	30.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.9	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	46			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	61			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	309	10	SW846 8082	21-Dec-07	24-Dec-07	7121522	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	309	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	309	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	309	10	"	"	"	"	"
12672-29-6	PCB 1248	14,400		µg/kg dry	309	10	"	"	"	"	"
11097-69-1	PCB 1254	7,060		µg/kg dry	309	10	"	"	"	"	"
11096-82-5	PCB 1260	11,500		µg/kg dry	309	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	309	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	309	10	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	61,500		mg/kg dry	74.3	50	SW846 6010B	16-Jan-08	18-Jan-08	8010992	SA
General Chemistry Parameters											
	% Solids	87.5		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S103-0-2**

SA72347-04

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:30

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.6	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	30.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.6	1	"	"	"	"	"
12672-29-6	PCB 1248	731		µg/kg dry	30.6	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	30.6	1	"	"	"	"	"
11096-82-5	PCB 1260	8,600	E	µg/kg dry	30.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	46			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	59			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	306	10	SW846 8082	21-Dec-07	24-Dec-07	7121522	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	306	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	306	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	306	10	"	"	"	"	"
12672-29-6	PCB 1248	611		µg/kg dry	306	10	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	306	10	"	"	"	"	"
11096-82-5	PCB 1260	10,700		µg/kg dry	306	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	306	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	306	10	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
<u>Polychlorinated Biphenyl Congeners</u>											
Prepared by method SW846 3550B											
34883-43-7	2,4'-Dichlorobiphenyl	BRL		µg/kg dry	3.29	1	SW846 8082	21-Dec-07	23-Dec-07	7121524	SM
37680-65-2	2,2',5'-Trichlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
7012-37-5	2,4,4'-Trichlorobiphenyl	61.1		µg/kg dry	3.29	1	"	"	"	"	"
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl	78.3		µg/kg dry	3.29	1	"	"	"	"	"
41464-40-8	2,2',4,5'-Tetrachlorobiphenyl	64.2		µg/kg dry	3.29	1	"	"	"	"	"
35693-99-3	2,2',5,5'-Tetrachlorobiphenyl	171		µg/kg dry	3.29	1	"	"	"	"	"
32598-10-0	2,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
38380-02-8	2,2',3,4,5'-Pentachlorobiphenyl	95.6		µg/kg dry	3.29	1	"	"	"	"	"
37680-73-2	2,2',4,5,5'-Pentachlorobiphenyl	385		µg/kg dry	3.29	1	"	"	"	"	"
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
31508-00-6	2,3',4,4',5'-Pentachlorobiphenyl	172		µg/kg dry	3.29	1	"	"	"	"	"
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl	412		µg/kg dry	3.29	1	"	"	"	"	"
57465-28-8	3,3',4,4',5'-Pentachlorobiphenyl	425		µg/kg dry	3.29	1	"	"	"	"	"
38380-07-3	2,2',3,3',4,4'-Hexachlorobiphenyl	61.1		µg/kg dry	3.29	1	"	"	"	"	"
35065-28-2	2,2',3,4,4',5'-Hexachlorobiphenyl	810		µg/kg dry	3.29	1	"	"	"	"	"
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl	1,350		µg/kg dry	3.29	1	"	"	"	"	"
38380-08-4	2,3,3',4,4',5'-Hexachlorobiphenyl	45.4		µg/kg dry	3.29	1	"	"	"	"	"
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
35065-30-6	2,2',3,3',4,4',5'-Heptachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl	945		µg/kg dry	3.29	1	"	"	"	"	"
52663-69-1	2,2',3,4,4',5',6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S103-0-2**

SA72347-04

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:30

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyl Congeners</u>											
Prepared by method SW846 3550B											
52663-68-0	2,2',3,4',5,5',6-Heptachlorobiphenyl	BRL		µg/kg dry	3.29	1	SW846 8082	21-Dec-07	23-Dec-07	7121524	SM
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl	75.2		µg/kg dry	3.29	1	"	"	"	"	"
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	28.2		µg/kg dry	3.29	1	"	"	"	"	"
2051-24-3	Decachlorobiphenyl	BRL		µg/kg dry	3.29	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	88.4		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S104-0-2**

SA72347-05

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:45

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.9	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11097-69-1	PCB 1254	155		µg/kg dry	30.9	1	"	"	"	"	"
11096-82-5	PCB 1260	94.2		µg/kg dry	30.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	32		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	40		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	87.6		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

Sample Identification**S105-0-4**

SA72347-06

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:55

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	29.8	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	29.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	29.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	29.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	29.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	29.8	1	"	"	"	"	"
11096-82-5	PCB 1260	4,960		µg/kg dry	29.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	29.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	29.8	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	98		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	91.6		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S106-0-3**

SA72347-07

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 10:10

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.2	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	31.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.2	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	31.2	1	"	"	"	"	"
11096-82-5	PCB 1260	236		µg/kg dry	31.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.2	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	130		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,410		mg/kg dry	1.56	1	SW846 6010B	16-Jan-08	17-Jan-08	8010992	SA
General Chemistry Parameters											
	% Solids	88.8		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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BRL = Below Reporting Limit

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Sample Identification**S106-3-5**

SA72347-08

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 10:10

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.9	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	32.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	34		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	38		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	84.0		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S107-0-2**

SA72347-09

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:40

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.5	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.5	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11096-82-5	PCB 1260	2,130		µg/kg dry	33.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	28	SGC	30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	42		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	83.0		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S108-0-2**

SA72347-10

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 10:00

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.7	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.7	1	"	"	"	"	"
12672-29-6	PCB 1248	101		µg/kg dry	35.7	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11096-82-5	PCB 1260	429		µg/kg dry	35.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	48		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	61		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	75.5		%		1	SM2540 G Mod.	21-Dec-07	21-Dec-07	7121563	RD

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S109-0-2**

SA72347-11

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:15

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.9	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11096-82-5	PCB 1260	21,200	E	µg/kg dry	30.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.9	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	44			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	3090	100	SW846 8082	21-Dec-07	24-Dec-07	7121522	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	3090	100	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	3090	100	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	3090	100	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	3090	100	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	3090	100	"	"	"	"	"
11096-82-5	PCB 1260	24,500		µg/kg dry	3090	100	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	3090	100	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	3090	100	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	88.7		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

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Sample Identification**S110-0-2**

SA72347-12

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 08:30

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.6	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11096-82-5	PCB 1260	41,900	E	µg/kg dry	32.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.6	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	64			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	3260	100	SW846 8082	21-Dec-07	24-Dec-07	7121522	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	3260	100	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	3260	100	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	3260	100	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	3260	100	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	3260	100	"	"	"	"	"
11096-82-5	PCB 1260	50,700		µg/kg dry	3260	100	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	3260	100	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	3260	100	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	83.8		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S110-2-4**

SA72347-13

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 08:30

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.9	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11096-82-5	PCB 1260	511,000	E	µg/kg dry	35.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.9	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	158	S02		30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	18000	500	SW846 8082	21-Dec-07	24-Dec-07	7121522	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	18000	500	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	18000	500	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	18000	500	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	18000	500	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	18000	500	"	"	"	"	"
11096-82-5	PCB 1260	1,350,000		µg/kg dry	18000	500	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	18000	500	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	18000	500	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
<u>Polychlorinated Biphenyl Congeners</u>											
Prepared by method SW846 3550B											
34883-43-7	2,4'-Dichlorobiphenyl	BRL		µg/kg dry	3.73	1	SW846 8082	21-Dec-07	23-Dec-07	7121524	SM
37680-65-2	2,2',5-Trichlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
7012-37-5	2,4,4'-Trichlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
41464-40-8	2,2',4,5'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
35693-99-3	2,2',5,5'-Tetrachlorobiphenyl	71.0		µg/kg dry	3.73	1	"	"	"	"	"
32598-10-0	2,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
38380-02-8	2,2',3,4,5'-Pentachlorobiphenyl	165		µg/kg dry	3.73	1	"	"	"	"	"
37680-73-2	2,2',4,5,5'-Pentachlorobiphenyl	1,140		µg/kg dry	3.73	1	"	"	"	"	"
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
31508-00-6	2,3',4,4',5-Pentachlorobiphenyl	273		µg/kg dry	3.73	1	"	"	"	"	"
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl	2,250	E	µg/kg dry	3.73	1	"	"	"	"	"
38380-07-3	2,2',3,3',4,4'-Hexachlorobiphenyl	238		µg/kg dry	3.73	1	"	"	"	"	"
35065-28-2	2,2',3,4,4',5'-Hexachlorobiphenyl	4,060	E	µg/kg dry	3.73	1	"	"	"	"	"
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl	7,290		µg/kg dry	3.73	1	"	"	"	"	"
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl	179		µg/kg dry	3.73	1	"	"	"	"	"
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl	5,390	E	µg/kg dry	3.73	1	"	"	"	"	"
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S110-2-4**

SA72347-13

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 08:30

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyl Congeners</u>											
Prepared by method SW846 3550B											
52663-68-0	2,2',3,4',5,5',6-Heptachlorobiphenyl	BRL		µg/kg dry	3.73	1	SW846 8082	21-Dec-07	23-Dec-07	7121524	SM
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl	486		µg/kg dry	3.73	1	"	"	"	"	"
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	181		µg/kg dry	3.73	1	"	"	"	"	"
2051-24-3	Decachlorobiphenyl	BRL		µg/kg dry	3.73	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyl Congeners</u>											
34883-43-7	2,4'-Dichlorobiphenyl	BRL		µg/kg dry	18.6	5	SW846 8082	21-Dec-07	26-Dec-07	7121524	SM
37680-65-2	2,2',5-Trichlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
7012-37-5	2,4,4'-Trichlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
41464-40-8	2,2',4,5'-Tetrachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
35693-99-3	2,2',5,5'-Tetrachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
32598-10-0	2,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
38380-02-8	2,2',3,4,5'-Pentachlorobiphenyl	160		µg/kg dry	18.6	5	"	"	"	"	"
37680-73-2	2,2',4,5,5'-Pentachlorobiphenyl	1,150		µg/kg dry	18.6	5	"	"	"	"	"
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
31508-00-6	2,3',4,4',5-Pentachlorobiphenyl	275		µg/kg dry	18.6	5	"	"	"	"	"
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl	2,080		µg/kg dry	18.6	5	"	"	"	"	"
38380-07-3	2,2',3,3',4,4'-Hexachlorobiphenyl	222		µg/kg dry	18.6	5	"	"	"	"	"
35065-28-2	2,2',3,4,4',5'-Hexachlorobiphenyl	4,440		µg/kg dry	18.6	5	"	"	"	"	"
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl	6,510		µg/kg dry	18.6	5	"	"	"	"	"
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl	151		µg/kg dry	18.6	5	"	"	"	"	"
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
35065-30-6	2,2',3,3',4,4',5-Heptachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl	4,660		µg/kg dry	18.6	5	"	"	"	"	"
52663-69-1	2,2',3,4,4',5',6-Heptachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
74472-48-3	2,2',3,4,4',6'-Heptachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
52663-68-0	2,2',3,4',5,5',6-Heptachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl	435		µg/kg dry	18.6	5	"	"	"	"	"
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	160		µg/kg dry	18.6	5	"	"	"	"	"
2051-24-3	Decachlorobiphenyl	BRL		µg/kg dry	18.6	5	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	77.0		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S111-0-2**

SA72347-14

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 08:55

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.5	1	SW846 8082	21-Dec-07	23-Dec-07	7121522	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	32.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.5	1	"	"	"	"	"
12672-29-6	PCB 1248	246		µg/kg dry	32.5	1	"	"	"	"	"
11097-69-1	PCB 1254	687		µg/kg dry	32.5	1	"	"	"	"	"
11096-82-5	PCB 1260	857		µg/kg dry	32.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	58		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	58		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	5,400		mg/kg dry	1.71	1	SW846 6010B	16-Jan-08	17-Jan-08	8010992	SA
General Chemistry Parameters											
	% Solids	85.2		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S112-0-2**

SA72347-15

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 11:15

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	37.3	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	37.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	37.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	37.3	1	"	"	"	"	"
12672-29-6	PCB 1248	8,030		µg/kg dry	37.3	1	"	"	"	"	"
11097-69-1	PCB 1254	15,900	E	µg/kg dry	37.3	1	"	"	"	"	"
11096-82-5	PCB 1260	9,420	E	µg/kg dry	37.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	37.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	37.3	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	373	10	SW846 8082	21-Dec-07	26-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	373	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	373	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	373	10	"	"	"	"	"
12672-29-6	PCB 1248	9,250		µg/kg dry	373	10	"	"	"	"	"
11097-69-1	PCB 1254	14,400		µg/kg dry	373	10	"	"	"	"	"
11096-82-5	PCB 1260	7,780		µg/kg dry	373	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	373	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	373	10	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	74.4		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S112-2-4**

SA72347-16

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 11:15

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.1	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11097-69-1	PCB 1254	67.2		µg/kg dry	32.1	1	"	"	"	"	"
11096-82-5	PCB 1260	83.3		µg/kg dry	32.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	105		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	85.9		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

Sample Identification**S113-0-2**

SA72347-17

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:05

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.9	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11097-69-1	PCB 1254	1,280		µg/kg dry	32.9	1	"	"	"	"	"
11096-82-5	PCB 1260	4,640		µg/kg dry	32.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.9	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"
<u>Polychlorinated Biphenyl Congeners</u>											
Prepared by method SW846 3550B											
34883-43-7	2,4'-Dichlorobiphenyl	24.7		µg/kg dry	3.45	1	"	21-Dec-07	23-Dec-07	7121524	SM
37680-65-2	2,2',5'-Trichlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
7012-37-5	2,4,4'-Trichlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
41464-39-5	2,2',3,5'-Tetrachlorobiphenyl	21.4		µg/kg dry	3.45	1	"	"	"	"	"
41464-40-8	2,2',4,5'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
35693-99-3	2,2',5,5'-Tetrachlorobiphenyl	34.5		µg/kg dry	3.45	1	"	"	"	"	"
32598-10-0	2,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
38380-02-8	2,2',3,4,5'-Pentachlorobiphenyl	46.0		µg/kg dry	3.45	1	"	"	"	"	"
37680-73-2	2,2',4,5,5'-Pentachlorobiphenyl	153		µg/kg dry	3.45	1	"	"	"	"	"
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
31508-00-6	2,3',4,4',5'-Pentachlorobiphenyl	80.5		µg/kg dry	3.45	1	"	"	"	"	"
39635-33-1	3,3',4,5,5'-Pentachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
57465-28-8	3,3',4,4',5'-Pentachlorobiphenyl	171		µg/kg dry	3.45	1	"	"	"	"	"
38380-07-3	2,2',3,3',4,4'-Hexachlorobiphenyl	27.9		µg/kg dry	3.45	1	"	"	"	"	"
35065-28-2	2,2',3,4,4',5'-Hexachlorobiphenyl	362		µg/kg dry	3.45	1	"	"	"	"	"
35065-27-1	2,2',4,4',5,5'-Hexachlorobiphenyl	477		µg/kg dry	3.45	1	"	"	"	"	"
38380-08-4	2,3,3',4,4',5'-Hexachlorobiphenyl	16.4		µg/kg dry	3.45	1	"	"	"	"	"
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
35065-30-6	2,2',3,3',4,4',5'-Heptachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
35065-29-3	2,2',3,4,4',5,5'-Heptachlorobiphenyl	339		µg/kg dry	3.45	1	"	"	"	"	"
52663-69-1	2,2',3,4,4',5',6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
74472-48-3	2,2',3,4,4',6,6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
52663-68-0	2,2',3,4',5,5',6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
52663-78-2	2,2',3,3',4,4',5,6-Octachlorobiphenyl	34.5		µg/kg dry	3.45	1	"	"	"	"	"
40186-72-9	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	19.7		µg/kg dry	3.45	1	"	"	"	"	"
2051-24-3	Decachlorobiphenyl	BRL		µg/kg dry	3.45	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	82.4		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S113-2-4**

SA72347-18

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 09:05

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.1	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	34.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	90		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	81.0		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S114-0-2**

SA72347-19

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 08:45

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.7	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.7	1	"	"	"	"	"
12672-29-6	PCB 1248	10,400	E	µg/kg dry	35.7	1	"	"	"	"	"
11097-69-1	PCB 1254	17,700	E	µg/kg dry	35.7	1	"	"	"	"	"
11096-82-5	PCB 1260	12,700	E	µg/kg dry	35.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	357	10	SW846 8082	21-Dec-07	24-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	357	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	357	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	357	10	"	"	"	"	"
12672-29-6	PCB 1248	15,800		µg/kg dry	357	10	"	"	"	"	"
11097-69-1	PCB 1254	18,300		µg/kg dry	357	10	"	"	"	"	"
11096-82-5	PCB 1260	16,700		µg/kg dry	357	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	357	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	357	10	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	76.1		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S114-2-4**

SA72347-20

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 08:45

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.5	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.5	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11097-69-1	PCB 1254	370		µg/kg dry	33.5	1	"	"	"	"	"
11096-82-5	PCB 1260	900		µg/kg dry	33.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	60		30-150 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	82.4		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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Sample Identification**S115-0-2**

SA72347-21

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 11:05

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.6	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	31.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.6	1	"	"	"	"	"
12672-29-6	PCB 1248	3,470		µg/kg dry	31.6	1	"	"	"	"	"
11097-69-1	PCB 1254	8,310	E	µg/kg dry	31.6	1	"	"	"	"	"
11096-82-5	PCB 1260	4,370		µg/kg dry	31.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	316	10	SW846 8082	21-Dec-07	24-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	316	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	316	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	316	10	"	"	"	"	"
12672-29-6	PCB 1248	3,710		µg/kg dry	316	10	"	"	"	"	"
11097-69-1	PCB 1254	10,400		µg/kg dry	316	10	"	"	"	"	"
11096-82-5	PCB 1260	4,640		µg/kg dry	316	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	316	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	316	10	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	4,020		mg/kg dry	1.67	1	SW846 6010B	16-Jan-08	17-Jan-08	8010992	SA
General Chemistry Parameters											
	% Solids	86.3		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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Sample Identification**S115-2-4**

SA72347-22

Client Project #

458-01/004

Matrix

Soil

Collection Date/Time

13-Dec-07 11:05

Received

14-Dec-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.6	1	SW846 8082	21-Dec-07	23-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11097-69-1	PCB 1254	8,240	E	µg/kg dry	33.6	1	"	"	"	"	"
11096-82-5	PCB 1260	2,800		µg/kg dry	33.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.6	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	336	10	SW846 8082	21-Dec-07	26-Dec-07	7121523	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	336	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	336	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	336	10	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	336	10	"	"	"	"	"
11097-69-1	PCB 1254	10,300		µg/kg dry	336	10	"	"	"	"	"
11096-82-5	PCB 1260	3,310		µg/kg dry	336	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	336	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	336	10	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
General Chemistry Parameters											
	% Solids	81.5		%		1	SM2540 G Mod.	21-Dec-07	22-Dec-07	7121561	DG

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121522 - SW846 3550B										
Blank (7121522-BLK1)										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	BRL		µg/kg wet	28.6						
PCB 1221	BRL		µg/kg wet	28.6						
PCB 1232	BRL		µg/kg wet	28.6						
PCB 1242	BRL		µg/kg wet	28.6						
PCB 1248	BRL		µg/kg wet	28.6						
PCB 1254	BRL		µg/kg wet	28.6						
PCB 1260	BRL		µg/kg wet	28.6						
PCB 1262	BRL		µg/kg wet	28.6						
PCB 1268	BRL		µg/kg wet	28.6						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.0		µg/kg wet		28.6		74	30-150		
Surrogate: Decachlorobiphenyl (Sr)	29.9		µg/kg wet		28.6		104	30-150		
LCS (7121522-BS1)										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	373		µg/kg wet	28.6	357		104	40-140		
PCB 1260	389		µg/kg wet	28.6	357		109	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.6		µg/kg wet		28.6		58	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.7		µg/kg wet		28.6		76	30-150		
LCS Dup (7121522-BSD1)										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	363		µg/kg wet	28.6	357		102	40-140	3	30
PCB 1260	372		µg/kg wet	28.6	357		104	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.0		µg/kg wet		28.6		56	30-150		
Surrogate: Decachlorobiphenyl (Sr)	22.7		µg/kg wet		28.6		80	30-150		
Duplicate (7121522-DUP1) Source: SA72522-01										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	BRL		µg/kg dry	29.4		BRL				40
PCB 1221	BRL		µg/kg dry	29.4		BRL				40
PCB 1232	BRL		µg/kg dry	29.4		BRL				40
PCB 1242	BRL		µg/kg dry	29.4		BRL				40
PCB 1248	BRL		µg/kg dry	29.4		BRL				40
PCB 1254	BRL		µg/kg dry	29.4		BRL				40
PCB 1260	64.5		µg/kg dry	29.4		68.6			6	40
PCB 1262	BRL		µg/kg dry	29.4		BRL				40
PCB 1268	BRL		µg/kg dry	29.4		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.6		µg/kg dry		29.3		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	22.0		µg/kg dry		29.3		75	30-150		
Matrix Spike (7121522-MS1) Source: SA72522-01										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	319		µg/kg dry	28.8	360	BRL	88	40-140		
PCB 1260	405		µg/kg dry	28.8	360	68.6	93	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.7		µg/kg dry		28.8		44	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.6		µg/kg dry		28.8		61	30-150		
Matrix Spike Dup (7121522-MSD1) Source: SA72522-01										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	318		µg/kg dry	28.8	360	BRL	88	40-140	0.2	50
PCB 1260	406		µg/kg dry	28.8	360	68.6	94	40-140	0.5	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.6		µg/kg dry		28.8		57	30-150		
Surrogate: Decachlorobiphenyl (Sr)	22.9		µg/kg dry		28.8		79	30-150		
Batch 7121523 - SW846 3550B										

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121523 - SW846 3550B										
<u>Blank (7121523-BLK1)</u>										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	BRL		µg/kg wet	28.6						
PCB 1221	BRL		µg/kg wet	28.6						
PCB 1232	BRL		µg/kg wet	28.6						
PCB 1242	BRL		µg/kg wet	28.6						
PCB 1248	BRL		µg/kg wet	28.6						
PCB 1254	BRL		µg/kg wet	28.6						
PCB 1260	BRL		µg/kg wet	28.6						
PCB 1262	BRL		µg/kg wet	28.6						
PCB 1268	BRL		µg/kg wet	28.6						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.7		µg/kg wet		28.6		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	27.1		µg/kg wet		28.6		95	30-150		
<u>LCS (7121523-BS1)</u>										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	331		µg/kg wet	28.6	357		93	40-140		
PCB 1260	336		µg/kg wet	28.6	357		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.3		µg/kg wet		28.6		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	25.7		µg/kg wet		28.6		90	30-150		
<u>LCS Dup (7121523-BSD1)</u>										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	343		µg/kg wet	28.6	357		96	40-140	3	30
PCB 1260	340		µg/kg wet	28.6	357		95	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.9		µg/kg wet		28.6		45	30-150		
Surrogate: Decachlorobiphenyl (Sr)	27.1		µg/kg wet		28.6		95	30-150		
<u>Duplicate (7121523-DUP1)</u> Source: SA72347-18										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	BRL		µg/kg dry	34.2		BRL				40
PCB 1221	BRL		µg/kg dry	34.2		BRL				40
PCB 1232	BRL		µg/kg dry	34.2		BRL				40
PCB 1242	BRL		µg/kg dry	34.2		BRL				40
PCB 1248	BRL		µg/kg dry	34.2		BRL				40
PCB 1254	BRL		µg/kg dry	34.2		BRL				40
PCB 1260	30.8	J	µg/kg dry	34.2		32.4			5	40
PCB 1262	BRL		µg/kg dry	34.2		BRL				40
PCB 1268	BRL		µg/kg dry	34.2		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.1		µg/kg dry		34.2		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	29.1		µg/kg dry		34.2		85	30-150		
<u>Matrix Spike (7121523-MS1)</u> Source: SA72347-18										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	381		µg/kg dry	34.1	425	BRL	90	40-140		
PCB 1260	405		µg/kg dry	34.1	425	32.4	88	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.0		µg/kg dry		34.0		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	28.9		µg/kg dry		34.0		85	30-150		
<u>Matrix Spike Dup (7121523-MSD1)</u> Source: SA72347-18										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
PCB 1016	386		µg/kg dry	33.9	423	BRL	91	40-140	2	50
PCB 1260	425		µg/kg dry	33.9	423	32.4	93	40-140	6	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.9		µg/kg dry		33.9		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	30.5		µg/kg dry		33.9		90	30-150		
Batch 7121524 - SW846 3550B										

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121524 - SW846 3550B										
Blank (7121524-BLK1)										
Prepared: 21-Dec-07 Analyzed: 22-Dec-07										
2,4'-Dichlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',5'-Trichlorobiphenyl	BRL		µg/kg wet	3.00						
2,4,4'-Trichlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,5'-Tetrachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',4,5'-Tetrachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',5,5'-Tetrachlorobiphenyl	BRL		µg/kg wet	3.00						
2,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg wet	3.00						
3,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,4,5'-Pentachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',4,5,5'-Pentachlorobiphenyl	BRL		µg/kg wet	3.00						
2,3,3',4,4'-Pentachlorobiphenyl	BRL		µg/kg wet	3.00						
2,3',4,4',5'-Pentachlorobiphenyl	BRL		µg/kg wet	3.00						
3,3',4,5,5'-Pentachlorobiphenyl	BRL		µg/kg wet	3.00						
3,3',4,4',5'-Pentachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,3',4,4'-Hexachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,4,4',5'-Hexachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg wet	3.00						
2,3,3',4,4',5'-Hexachlorobiphenyl	BRL		µg/kg wet	3.00						
3,3',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,3',4,4',5'-Heptachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,4,4',5,5'-Heptachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,4,4',5,6'-Heptachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,4',5,5',6'-Heptachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	BRL		µg/kg wet	3.00						
2,2',3,3',4,4',5,5',6'-Nonachlorobiphenyl	BRL		µg/kg wet	3.00						
Decachlorobiphenyl	BRL		µg/kg wet	3.00						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.3		µg/kg wet		28.6		50	30-150		
LCS (7121524-BS1)										
Prepared: 21-Dec-07 Analyzed: 22-Dec-07										
2,4'-Dichlorobiphenyl	294		µg/kg wet	3.00	286		103	0-140		
2,2',5'-Trichlorobiphenyl	351		µg/kg wet	3.00	286		123	40-140		
2,4,4'-Trichlorobiphenyl	314		µg/kg wet	3.00	286		110	40-140		
2,2',3,5'-Tetrachlorobiphenyl	294		µg/kg wet	3.00	286		103	40-140		
2,2',4,5'-Tetrachlorobiphenyl	354		µg/kg wet	3.00	286		124	40-140		
2,2',5,5'-Tetrachlorobiphenyl	333		µg/kg wet	3.00	286		116	40-140		
2,3',4,4'-Tetrachlorobiphenyl	300		µg/kg wet	3.00	286		105	40-140		
3,3',4,4'-Tetrachlorobiphenyl	294		µg/kg wet	3.00	286		103	40-140		
2,2',3,4,5'-Pentachlorobiphenyl	284		µg/kg wet	3.00	286		99	40-140		
2,2',4,5,5'-Pentachlorobiphenyl	291		µg/kg wet	3.00	286		102	40-140		
2,3,3',4,4'-Pentachlorobiphenyl	281		µg/kg wet	3.00	286		98	40-140		
2,3',4,4',5'-Pentachlorobiphenyl	284		µg/kg wet	3.00	286		99	40-140		
3,3',4,5,5'-Pentachlorobiphenyl	287		µg/kg wet	3.00	286		100	40-140		
3,3',4,4',5'-Pentachlorobiphenyl	281		µg/kg wet	3.00	286		98	40-140		
2,2',3,3',4,4'-Hexachlorobiphenyl	284		µg/kg wet	3.00	286		99	40-140		
2,2',3,4,4',5'-Hexachlorobiphenyl	283		µg/kg wet	3.00	286		99	40-140		
2,2',4,4',5,5'-Hexachlorobiphenyl	323		µg/kg wet	3.00	286		113	40-140		
2,3,3',4,4',5'-Hexachlorobiphenyl	284		µg/kg wet	3.00	286		99	40-140		
3,3',4,4',5,5'-Hexachlorobiphenyl	273		µg/kg wet	3.00	286		95	40-140		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121524 - SW846 3550B										
<u>LCS (7121524-BS1)</u>										
Prepared: 21-Dec-07 Analyzed: 22-Dec-07										
2,2',3,3',4,4',5-Heptachlorobiphenyl	277		µg/kg wet	3.00	286		97	40-140		
2,2',3,4,4',5,5'-Heptachlorobiphenyl	279		µg/kg wet	3.00	286		97	40-140		
2,2',3,4,4',5,6-Heptachlorobiphenyl	296		µg/kg wet	3.00	286		104	40-140		
2,2',3,4,4',6,6'-Heptachlorobiphenyl	284		µg/kg wet	3.00	286		99	40-140		
2,2',3,4',5,5',6-Heptachlorobiphenyl	297		µg/kg wet	3.00	286		104	40-140		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	270		µg/kg wet	3.00	286		94	40-140		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	264		µg/kg wet	3.00	286		92	40-140		
Decachlorobiphenyl	291		µg/kg wet	3.00	286		102	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.6		µg/kg wet		28.6		65	30-150		
<u>LCS Dup (7121524-BSD1)</u>										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
2,4'-Dichlorobiphenyl	289		µg/kg wet	3.00	286		101	0-140	2	30
2,2',5-Trichlorobiphenyl	317		µg/kg wet	3.00	286		111	40-140	10	30
2,4,4'-Trichlorobiphenyl	274		µg/kg wet	3.00	286		96	40-140	14	30
2,2'3,5'-Tetrachlorobiphenyl	256		µg/kg wet	3.00	286		90	40-140	14	30
2,2',4,5'-Tetrachlorobiphenyl	304		µg/kg wet	3.00	286		106	40-140	15	30
2,2',5,5'-Tetrachlorobiphenyl	286		µg/kg wet	3.00	286		100	40-140	15	30
2,3',4,4'-Tetrachlorobiphenyl	263		µg/kg wet	3.00	286		92	40-140	13	30
3,3',4,4'-Tetrachlorobiphenyl	259		µg/kg wet	3.00	286		90	40-140	13	30
2,2',3,4,5'-Pentachlorobiphenyl	246		µg/kg wet	3.00	286		86	40-140	15	30
2,2',4,5,5'-Pentachlorobiphenyl	253		µg/kg wet	3.00	286		88	40-140	14	30
2,3,3',4,4'-Pentachlorobiphenyl	250		µg/kg wet	3.00	286		88	40-140	12	30
2,3',4,4',5-Pentachlorobiphenyl	250		µg/kg wet	3.00	286		88	40-140	13	30
3,3',4,5,5'-Pentachlorobiphenyl	259		µg/kg wet	3.00	286		90	40-140	10	30
3,3',4,4',5-Pentachlorobiphenyl	254		µg/kg wet	3.00	286		89	40-140	10	30
2,2',3,3',4,4'-Hexachlorobiphenyl	263		µg/kg wet	3.00	286		92	40-140	8	30
2,2',3,4,4',5'-Hexachlorobiphenyl	254		µg/kg wet	3.00	286		89	40-140	11	30
2,2',4,4'5,5'-Hexachlorobiphenyl	284		µg/kg wet	3.00	286		99	40-140	13	30
2,3,3',4,4',5-Hexachlorobiphenyl	263		µg/kg wet	3.00	286		92	40-140	8	30
3,3',4,4',5,5'-Hexachlorobiphenyl	257		µg/kg wet	3.00	286		90	40-140	6	30
2,2',3,3',4,4',5-Heptachlorobiphenyl	266		µg/kg wet	3.00	286		93	40-140	4	30
2,2',3,4,4',5,5'-Heptachlorobiphenyl	259		µg/kg wet	3.00	286		90	40-140	7	30
2,2',3,4,4',5,6-Heptachlorobiphenyl	271		µg/kg wet	3.00	286		95	40-140	9	30
2,2',3,4,4',6,6'-Heptachlorobiphenyl	251		µg/kg wet	3.00	286		88	40-140	12	30
2,2',3,4',5,5',6-Heptachlorobiphenyl	267		µg/kg wet	3.00	286		94	40-140	11	30
2,2',3,3',4,4',5,6-Octachlorobiphenyl	260		µg/kg wet	3.00	286		91	40-140	4	30
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	264		µg/kg wet	3.00	286		92	40-140	0	30
Decachlorobiphenyl	296		µg/kg wet	3.00	286		104	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.1		µg/kg wet		28.6		60	30-150		
<u>Duplicate (7121524-DUP1)</u> Source: SA72347-04										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
2,4'-Dichlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,2',5-Trichlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,4,4'-Trichlorobiphenyl	48.5		µg/kg dry	3.28		61.1			23	40
2,2'3,5'-Tetrachlorobiphenyl	48.5	QM4	µg/kg dry	3.28		78.3			47	40
2,2',4,5'-Tetrachlorobiphenyl	26.6	QM4	µg/kg dry	3.28		64.2			83	40
2,2',5,5'-Tetrachlorobiphenyl	62.5	QM4	µg/kg dry	3.28		171			93	40
2,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
3,3',4,4'-Tetrachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121524 - SW846 3550B										
Duplicate (7121524-DUP1) Source: SA72347-04										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
2,2',3,4,5'-Pentachlorobiphenyl	53.2	QM4	µg/kg dry	3.28		95.6			57	40
2,2',4,5,5'-Pentachlorobiphenyl	230	QM4	µg/kg dry	3.28		385			51	40
2,3,3',4,4'-Pentachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,3',4,4',5-Pentachlorobiphenyl	87.6	QM4	µg/kg dry	3.28		172			65	40
3,3',4,5,5'-Pentachlorobiphenyl	189	QM4	µg/kg dry	3.28		412			74	40
3,3',4,4',5-Pentachlorobiphenyl	216	QM4	µg/kg dry	3.28		425			65	40
2,2',3,3',4,4'-Hexachlorobiphenyl	34.4	QM4	µg/kg dry	3.28		61.1			56	40
2,2',3,4,4',5'-Hexachlorobiphenyl	532	QM4	µg/kg dry	3.28		810			42	40
2,2',4,4',5,5'-Hexachlorobiphenyl	724	QM4	µg/kg dry	3.28		1350			60	40
2,3,3',4,4',5-Hexachlorobiphenyl	20.3	QM4	µg/kg dry	3.28		45.4			76	40
3,3',4,4',5,5'-Hexachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,2',3,3',4,4',5-Heptachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,2',3,4,4',5,5'-Heptachlorobiphenyl	435	QM4	µg/kg dry	3.28		945			74	40
2,2',3,4,4',5,6-Heptachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,2',3,4,4',6,6'-Heptachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,2',3,4',5,5',6-Heptachlorobiphenyl	BRL		µg/kg dry	3.28		BRL				40
2,2',3,3',4,4',5,6-Octachlorobiphenyl	40.7	QM4	µg/kg dry	3.28		75.2			60	40
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	14.1	QM4	µg/kg dry	3.28		28.2			67	40
Decachlorobiphenyl	48.5		µg/kg dry	3.28		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.6		µg/kg dry		31.3		50	30-150		
Matrix Spike (7121524-MS1) Source: SA72347-04										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
2,4'-Dichlorobiphenyl	344		µg/kg dry	3.29	313	BRL	110	40-140		
2,2',5-Trichlorobiphenyl	387		µg/kg dry	3.29	313	BRL	124	40-140		
2,4,4'-Trichlorobiphenyl	396		µg/kg dry	3.29	313	61.1	107	40-140		
2,2',3,5'-Tetrachlorobiphenyl	366		µg/kg dry	3.29	313	78.3	92	40-140		
2,2',4,5'-Tetrachlorobiphenyl	321		µg/kg dry	3.29	313	64.2	82	40-140		
2,2',5,5'-Tetrachlorobiphenyl	434		µg/kg dry	3.29	313	171	84	40-140		
2,3',4,4'-Tetrachlorobiphenyl	393		µg/kg dry	3.29	313	BRL	126	40-140		
3,3',4,4'-Tetrachlorobiphenyl	409		µg/kg dry	3.29	313	BRL	130	40-140		
2,2',3,4,5'-Pentachlorobiphenyl	462		µg/kg dry	3.29	313	95.6	117	40-140		
2,2',4,5,5'-Pentachlorobiphenyl	667		µg/kg dry	3.29	313	385	90	40-140		
2,3,3',4,4'-Pentachlorobiphenyl	369		µg/kg dry	3.29	313	BRL	118	40-140		
2,3',4,4',5-Pentachlorobiphenyl	423		µg/kg dry	3.29	313	172	80	40-140		
3,3',4,5,5'-Pentachlorobiphenyl	606		µg/kg dry	3.29	313	412	62	40-140		
3,3',4,4',5-Pentachlorobiphenyl	756		µg/kg dry	3.29	313	425	106	40-140		
2,2',3,3',4,4'-Hexachlorobiphenyl	337		µg/kg dry	3.29	313	61.1	88	40-140		
2,2',3,4,4',5'-Hexachlorobiphenyl	1390	QM6	µg/kg dry	3.29	313	810	186	40-140		
2,2',4,4',5,5'-Hexachlorobiphenyl	1260	QM6	µg/kg dry	3.29	313	1350	-26	40-140		
2,3,3',4,4',5-Hexachlorobiphenyl	393		µg/kg dry	3.29	313	45.4	111	40-140		
3,3',4,4',5,5'-Hexachlorobiphenyl	312		µg/kg dry	3.29	313	BRL	100	40-140		
2,2',3,3',4,4',5-Heptachlorobiphenyl	467	QM6	µg/kg dry	3.29	313	BRL	149	40-140		
2,2',3,4,4',5,5'-Heptachlorobiphenyl	1040	QM6	µg/kg dry	3.29	313	945	31	40-140		
2,2',3,4,4',5,6-Heptachlorobiphenyl	380		µg/kg dry	3.29	313	BRL	122	40-140		
2,2',3,4,4',6,6'-Heptachlorobiphenyl	329		µg/kg dry	3.29	313	BRL	105	40-140		
2,2',3,4',5,5',6-Heptachlorobiphenyl	503	QM6	µg/kg dry	3.29	313	BRL	160	40-140		
2,2',3,3',4,4',5,6-Octachlorobiphenyl	416		µg/kg dry	3.29	313	75.2	109	40-140		
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	358		µg/kg dry	3.29	313	28.2	105	40-140		
Decachlorobiphenyl	368		µg/kg dry	3.29	313	BRL	118	40-140		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121524 - SW846 3550B										
Matrix Spike (7121524-MS1) Source: SA72347-04										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.4		µg/kg dry		31.3		65	30-150		
Matrix Spike Dup (7121524-MSD1) Source: SA72347-04										
Prepared: 21-Dec-07 Analyzed: 23-Dec-07										
2,4'-Dichlorobiphenyl	323		µg/kg dry	3.29	313	BRL	103	40-140	7	50
2,2',5-Trichlorobiphenyl	440		µg/kg dry	3.29	313	BRL	140	40-140	13	50
2,4,4'-Trichlorobiphenyl	429		µg/kg dry	3.29	313	61.1	117	40-140	9	50
2,2',3,5'-Tetrachlorobiphenyl	445		µg/kg dry	3.29	313	78.3	117	40-140	24	50
2,2',4,5'-Tetrachlorobiphenyl	450		µg/kg dry	3.29	313	64.2	123	40-140	40	50
2,2',5,5'-Tetrachlorobiphenyl	498		µg/kg dry	3.29	313	171	104	40-140	22	50
2,3',4,4'-Tetrachlorobiphenyl	370		µg/kg dry	3.29	313	BRL	118	40-140	6	50
3,3',4,4'-Tetrachlorobiphenyl	584	QM6	µg/kg dry	3.29	313	BRL	186	40-140	35	50
2,2',3,4,5'-Pentachlorobiphenyl	410		µg/kg dry	3.29	313	95.6	100	40-140	15	50
2,2',4,5,5'-Pentachlorobiphenyl	558		µg/kg dry	3.29	313	385	55	40-140	48	50
2,3,3',4,4'-Pentachlorobiphenyl	379		µg/kg dry	3.29	313	BRL	121	40-140	3	50
2,3',4,4',5-Pentachlorobiphenyl	448		µg/kg dry	3.29	313	172	88	40-140	10	50
3,3',4,5,5'-Pentachlorobiphenyl	562		µg/kg dry	3.29	313	412	48	40-140	25	50
3,3',4,4',5-Pentachlorobiphenyl	628		µg/kg dry	3.29	313	425	65	40-140	48	50
2,2',3,3',4,4'-Hexachlorobiphenyl	368		µg/kg dry	3.29	313	61.1	98	40-140	11	50
2,2',3,4,4',5'-Hexachlorobiphenyl	913	QM6	µg/kg dry	3.29	313	810	33	40-140	140	50
2,2',4,4',5,5'-Hexachlorobiphenyl	1200	QM6	µg/kg dry	3.29	313	1350	-46	40-140	NR	50
2,3,3',4,4',5-Hexachlorobiphenyl	382		µg/kg dry	3.29	313	45.4	107	40-140	3	50
3,3',4,4',5,5'-Hexachlorobiphenyl	351	QM6	µg/kg dry	3.29	313	BRL	112	40-140	12	50
2,2',3,3',4,4',5-Heptachlorobiphenyl	426		µg/kg dry	3.29	313	BRL	136	40-140	9	50
2,2',3,4,4',5,5'-Heptachlorobiphenyl	899	QM6	µg/kg dry	3.29	313	945	-15	40-140	NR	50
2,2',3,4,4',5,6-Heptachlorobiphenyl	399		µg/kg dry	3.29	313	BRL	128	40-140	5	50
2,2',3,4,4',6,6'-Heptachlorobiphenyl	334		µg/kg dry	3.29	313	BRL	106	40-140	1	50
2,2',3,4',5,5',6-Heptachlorobiphenyl	454	QM6	µg/kg dry	3.29	313	BRL	145	40-140	10	50
2,2',3,3',4,4',5,6-Octachlorobiphenyl	403		µg/kg dry	3.29	313	75.2	104	40-140	4	50
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	376		µg/kg dry	3.29	313	28.2	111	40-140	5	50
Decachlorobiphenyl	398		µg/kg dry	3.29	313	BRL	127	40-140	8	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.4		µg/kg dry		31.3		65	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8010992 - SW846 3050B										
<u>Blank (8010992-BLK1)</u>										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	BRL		mg/kg wet	1.35						
<u>Duplicate (8010992-DUP1)</u> Source: SA73253-06										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	11.4		mg/kg dry	1.38		10.8			6	20
<u>Matrix Spike (8010992-MS1)</u> Source: SA73220-01										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	108		mg/kg dry	1.53	127	5.06	81	75-125		
<u>Matrix Spike Dup (8010992-MSD1)</u> Source: SA73220-01										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	117		mg/kg dry	1.55	129	5.06	87	75-125	8	35
<u>Post Spike (8010992-PS1)</u> Source: SA73220-01										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	103		mg/kg dry	1.37	114	5.06	86	80-120		
<u>Reference (8010992-SRM1)</u>										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	38.8		mg/kg wet	1.50	45.0		86	81.8-118.1		
<u>Reference (8010992-SRM2)</u>										
Prepared: 16-Jan-08 Analyzed: 17-Jan-08										
Lead	38.6		mg/kg wet	1.50	44.7		86	81.8-118.1		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7121561 - General Preparation										
<u>Duplicate (7121561-DUP1)</u> Source: SA72347-11										
Prepared: 21-Dec-07 Analyzed: 22-Dec-07										
% Solids	82.6		%			88.7			7	20
Batch 7121563 - General Preparation										
<u>Duplicate (7121563-DUP1)</u> Source: SA72305-55										
Prepared & Analyzed: 21-Dec-07										
% Solids	77.2		%			76.5			1	20

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM6	Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.


Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

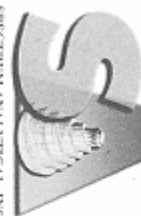
Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown
Rebecca Merz

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA			Project #: 458-01/004		
Project Location: Topeka - Roxbury, MA			MADEP RTN ¹ :		
This form provides certifications for the following data set: SA72347-01 through SA72347-22					
Sample matrices:		Soil			
MCP SW-846 Methods Used	<input type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input checked="" type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input type="checkbox"/> 8081A	<input type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input checked="" type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte					
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input type="checkbox"/> Yes <input type="checkbox"/> No
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
All negative responses are addressed in a case narrative on the cover page of this report.					
<p>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</p> <div style="text-align: right;">  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 1/18/2008 </div>					



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01702

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Don Marsh

IRWIN Engineers
33 West Central St
Natick, MA 01760

Project Mgr.: Don Marsh

Invoice To: _____

Same

Project No.: 458-01/004

Site Name: Topoka St

Location: Roxbury

Sampler(s): S. Atwood

P.O. No.: _____

RON: _____

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid

7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes:
7234701	5101-0-2	12/13/07	10:25	G	SO		1				PCBs Method 8082	QA Reporting Notes: (check if needed) <input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report QA/QC Reporting Level <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards: <u>5-1,5-2,5-3</u>
02	5101-2-4	12/13/07	10:25	G	SO		1					
03	5102-0-2	12/13/07	9:25	G	SO		1					
04	5103-0-2	12/13/07	9:30	G	SO		1					
05	5104-0-2	12/13/07	9:45	G	SO		1					
06	5105-0-2	12/13/07	9:55	G	SO		1					
07	5106-0-3	12/13/07	10:10	G	SO		1					
08	5106-3-5	12/13/07	10:10	G	SO		1					
09	5107-0-2	12/13/07	9:40	G	SO		1					
10	5108-0-2	12/13/07	10:00	G	SO		1					

☐ Fax results when available to (_____) _____
☒ E-mail to dmarshe@irwinengineers.com
EDD Format pdf
Condition upon receipt: ☐ Iced ☐ Ambient ☒ 2.3 pgs

Relinquished by: Don Marsh

Received by: Big Larry

Date: 12/14/07 Time: 1442

Date: 12/14/07 Time: 1745



SPECTRUM ANALYTICAL, INC.
Framingham
HANNAH TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Dan Marsh

Invoice To: Same

Project No.: 458-01004

IRWIN Engineers

Site Name: Tapeka St

Location: Roxbury

33 West Central St

State: MA

Project Mgr.: Dan Marsh

P.O. No.: _____

Sampler(s): S. Atwood

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCBs Method 8082	PCB congeners	QA Reporting Notes: (check if needed)	Date:	Time:
72347-11	5104-0-2	12/13/07	9:15	G	SO		1	1			X		<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report QA/QC Reporting Level <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards: <u>5-1, 5-2, 5-3</u>	12/14/07	1745
12	5110-0-2	12/13/07	8:30	G	SO		1	1			X				
13	5110-2-4	12/13/07	8:30	G	SO		1				X				
14	5111-0-2	12/13/07	8:55	G	SO		1				X				
15	5112-0-2	12/13/07	11:15	G	SO		1				X				
16	5112-2-4	12/13/07	11:15	G	SO		1				X				
17	5113-0-2	12/13/07	9:05	G	SO		1				X				
18	5113-2-4	12/13/07	9:05	G	SO		1				X				
19	5114-0-2	12/13/07	8:45	G	SO		1				X				
20	5114-2-4	12/13/07	8:45	G	SO		1				X				

Relinquished by:

Received by:

☐ Fax results when available to ()
☒ E-mail to dmars@irwinengineers.com

EDD Format P&F

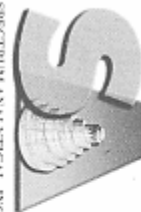
Condition upon receipt: ☐ Iced ☐ Ambient ☒ C 2, 3

Dan Marsh

S. Atwood

Sam

Sam



SPECTRUM ANALYTICAL, INC.
Featuring
HANNAH TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Report To: Don Marsh

33 West Central St
Natick, MA 01760

Project Mgr.: Don Marsh

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 458-01/004

Site Name: Tapers st

Location: Roxbury State: MA

Sampler(s): S. Ahmed

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id: _____ Sample Id: _____ Date: _____ Time: _____

Type _____ Matrix _____

Preservative _____

Containers:

of VOA Vials _____
of Amber Glass _____
of Clear Glass _____
of Plastic _____

Analyses:

QA Reporting Notes:
(check if needed)

☒ Provide MA DEP MCP CAM Report
☐ Provide CT DPH RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other _____

⁴State specific reporting standards:
5-1,5-2,5-3

42347-21 5115-02 12/13/07 11:05 G SO
22 5115-02-4 12/13/07 11:05 G SO

1
1
X
X

PCBs Method 8082

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to () _____
☒ E-mail to dmars@innengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient 2.3

Don Marsh

Unit

Bill Harty

12/14/07

1745

SPECTRUM ANALYTICAL, INC.
Framingham
HANDBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Don MarshIRWIN Engineers
33 West Central St
Natick, MA 01760Project Mgr.: Don Marsh

P.O. No.: _____

RQN: _____

Project No.: 458-01/004Site Name: Topoka StLocation: RoxburyState: MASampler(s): S. Atwood1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9=_____ 10=_____DW=Drinking Water GW=Groundwater W=W=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
7234701	5101-0-2	12/13/07	10:25	G	SO		1					PCBs Method 8082 PCB congeners	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DEP RCP Report QA/QC Reporting Level <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards: 5-1,5-2,5-3
02	5101-2-4	12/13/07	10:25	G	SO		1						
03	5102-0-2	12/13/07	9:25	G	SO		1						
04	5103-0-2	12/13/07	9:30	G	SO		1						
05	5104-0-2	12/13/07	9:45	G	SO		1						
06	5105-0-4	12/13/07	9:55	G	SO		1						
07	5106-0-3	12/13/07	10:10	G	SO		1						
08	5106-3-5	12/13/07	10:10	G	SO		1						
09	5107-0-2	12/13/07	9:40	G	SO		1						
10	5108-0-2	12/13/07	10:00	G	SO		1						

Relinquished by: Don Marsh Received by: Atwood

Date: 12/14/07 Time: 1442

Condition upon receipt: ☐ Iced ☐ Ambient 2.3

EDD Format pdf

E-mail to dmarshe@irwinengineers.com



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01701

CHAIN OF CUSTODY RECORD

Page 1 of 3

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Report To: Don Marsh

Invoice To: Scime

Project No.: 458-01/004

TRWIN Engineers

Scime

Site Name: Topoka St

33 West Central St

Scime

Location: Roxbury

Project Mgr.: Don Marsh

P.O. No.: _____

RON: _____

Sampler(s): S. Atwood

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
7234701	5101-0-2	12/13/07	10:25	G	SO		1					PCBs Method 8082 PCB congeners	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DEP RCP Report QA/QC Reporting Level <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards: <u>5-15-2,5-3</u>
02	5101-2-4	12/13/07	10:25	G	SO		1						
03	5102-0-2	12/13/07	9:25	G	SO		1						
04	5103-0-2	12/13/07	9:30	G	SO		1						
05	5104-0-2	12/13/07	9:45	G	SO		1						
06	5105-0-4	12/13/07	9:55	G	SO		1						
07	5106-0-3	12/13/07	10:10	G	SO		1						
08	5106-3-5	12/13/07	10:10	G	SO		1						
09	5107-0-2	12/13/07	9:40	G	SO		1						
✓ 10	5108-0-2	12/13/07	10:00	G	SO		1						
Relinquished by: <u>Don Marsh</u> Received by: <u>Paula</u>													
Date: <u>12/14/07</u> Time: <u>1745</u>													

Condition upon receipt: ☐ Iced ☐ Ambient ☒ 2.5

Page 2 of 3

Special Handling:

☒ Standard TAT - 7 to 10 business days

☐ Kush TAT - Date Needed:

All TATs subject to laboratory approval

Min. 24-hour notification needed for rust

• Samples disposed of after 60 days unless

otherwise instructed

3-01/004

5t 9kg

5

Atwood

QA Reporting Notes

(check if needed)

☒ Provide MA DEP MCP CAM Report☐ Provide CT DPH RCP Report

QA/QC Reporting Level

☐ Standard ☐ No QC
☐ Other _____

State specific reporting standards

5-1, 5-2, 5-3

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[illegible]

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[illegible][illegible]

ADDED

ANALYSIS

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[illegible]

	Date:	12/14/2014
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11	10/10/17
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2/11/10

150711

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SPECTRUM ANALYTICAL, INC.
Framingham
MA 01702

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ Samples disposed of after 60 days unless otherwise instructed.

Report To: Ben Maish

Invoice To: Same

Project No.: 458-01/004

Site Name: Topex St

Location: Roxbury State: MA

Sampler(s): S. Atwood

Project Mgr.: Ben Maish

P.O. No.: _____ RQN: _____

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:

Sample Id:

Date:

Time:

Type

Matrix

Preservative

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

PCBs Method 6082

PO

- ☒ Provide MA DEP MCP CAM Report
- ☐ Provide CT DEP RCP Report
- ☐ QA/QC Reporting Level
- ☐ Standard ☐ No QC
- ☐ Other _____
- State specific reporting standards:
5-1, 5-2, 5-3

ADDED
ANALYSIS 11/11/08

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to (_____) _____

☒ E-mail to dm@irwinengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient ☒ 2.7

Report Date:
02-Nov-07 17:27



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Irwin Engineers, Inc.
33 West Central Street
Natick, MA 01760
Attn: Dan Marsh

Project: Topeka - Roxbury, MA
Project 458-01/001

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA69729-01	S1-0-2	Soil	17-Oct-07 13:00	18-Oct-07 16:40
SA69729-02	S1-2-4	Soil	17-Oct-07 13:00	18-Oct-07 16:40
SA69729-03	S1-4-6	Soil	17-Oct-07 13:00	18-Oct-07 16:40
SA69729-04	S1-6-8	Soil	17-Oct-07 13:00	18-Oct-07 16:40
SA69729-05	S2-0-2	Soil	17-Oct-07 09:20	18-Oct-07 16:40
SA69729-06	S2-2-4	Soil	17-Oct-07 09:20	18-Oct-07 16:40
SA69729-07	S2-4-6	Soil	17-Oct-07 09:20	18-Oct-07 16:40
SA69729-08	S2-6-8	Soil	17-Oct-07 09:20	18-Oct-07 16:40
SA69729-09	S3-0-2	Soil	17-Oct-07 09:10	18-Oct-07 16:40
SA69729-10	S3-2-4	Soil	17-Oct-07 09:10	18-Oct-07 16:40
SA69729-11	S3-4-6	Soil	17-Oct-07 09:10	18-Oct-07 16:40
SA69729-12	S3-6-8	Soil	17-Oct-07 09:10	18-Oct-07 16:40
SA69729-13	S4-0-2	Soil	17-Oct-07 08:40	18-Oct-07 16:40
SA69729-14	S4-2-4	Soil	17-Oct-07 08:40	18-Oct-07 16:40
SA69729-15	S4-4-6	Soil	17-Oct-07 08:40	18-Oct-07 16:40
SA69729-16	S4-6-8	Soil	17-Oct-07 08:40	18-Oct-07 16:40
SA69729-17	S5-0-2	Soil	17-Oct-07 10:10	18-Oct-07 16:40
SA69729-18	S5-2-4	Soil	17-Oct-07 10:10	18-Oct-07 16:40
SA69729-19	S5-4-6	Soil	17-Oct-07 10:10	18-Oct-07 16:40
SA69729-20	S5-6-8	Soil	17-Oct-07 10:10	18-Oct-07 16:40
SA69729-21	S6-0-2	Soil	17-Oct-07 09:55	18-Oct-07 16:40
SA69729-22	S6-2-4	Soil	17-Oct-07 09:55	18-Oct-07 16:40
SA69729-23	S6-4-6	Soil	17-Oct-07 09:55	18-Oct-07 16:40
SA69729-24	S6-6-8	Soil	17-Oct-07 09:55	18-Oct-07 16:40
SA69729-25	S7-0-2	Soil	17-Oct-07 09:50	18-Oct-07 16:40
SA69729-26	S7-2-4	Soil	17-Oct-07 09:50	18-Oct-07 16:40
SA69729-27	S7-4-6	Soil	17-Oct-07 09:50	18-Oct-07 16:40
SA69729-28	S7-6-8	Soil	17-Oct-07 09:50	18-Oct-07 16:40
SA69729-29	S8-0-2	Soil	17-Oct-07 09:35	18-Oct-07 16:40
SA69729-30	S8-2-4	Soil	17-Oct-07 09:35	18-Oct-07 16:40
SA69729-31	S8-4-6	Soil	17-Oct-07 09:35	18-Oct-07 16:40
SA69729-32	S8-6-8	Soil	17-Oct-07 09:35	18-Oct-07 16:40
SA69729-33	S9-0-2	Soil	17-Oct-07 10:45	18-Oct-07 16:40
SA69729-34	S9-2-4	Soil	17-Oct-07 10:45	18-Oct-07 16:40
SA69729-35	S9-4-6	Soil	17-Oct-07 10:45	18-Oct-07 16:40
SA69729-36	S9-6-8	Soil	17-Oct-07 10:45	18-Oct-07 16:40
SA69729-37	S10-0-2	Soil	17-Oct-07 10:30	18-Oct-07 16:40
SA69729-38	S10-2-4	Soil	17-Oct-07 10:30	18-Oct-07 16:40
SA69729-39	S10-4-6	Soil	17-Oct-07 10:30	18-Oct-07 16:40
SA69729-40	S10-6-8	Soil	17-Oct-07 10:30	18-Oct-07 16:40
SA69729-41	S11-0-2	Soil	17-Oct-07 10:20	18-Oct-07 16:40

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA69729-42	S11-2-4	Soil	17-Oct-07 10:20	18-Oct-07 16:40
SA69729-43	S11-4-6	Soil	17-Oct-07 10:20	18-Oct-07 16:40
SA69729-44	S11-6-8	Soil	17-Oct-07 10:20	18-Oct-07 16:40
SA69729-45	S12-0-2	Soil	17-Oct-07 11:00	18-Oct-07 16:40
SA69729-46	S12-2-4	Soil	17-Oct-07 11:00	18-Oct-07 16:40
SA69729-47	S12-4-6	Soil	17-Oct-07 11:00	18-Oct-07 16:40
SA69729-48	S12-6-8	Soil	17-Oct-07 11:00	18-Oct-07 16:40
SA69729-49	S13S14S15-0-2	Soil	17-Oct-07 12:00	18-Oct-07 16:40
SA69729-50	S13S14S15-2-4	Soil	17-Oct-07 12:00	18-Oct-07 16:40
SA69729-51	S13S14S15-4-6	Soil	17-Oct-07 12:00	18-Oct-07 16:40
SA69729-52	S13S14S15-6-8	Soil	17-Oct-07 12:00	18-Oct-07 16:40
SA69729-53	S2S3S4-8-10	Soil	17-Oct-07 09:00	18-Oct-07 16:40
SA69729-54	S5S6S7S8-8-10	Soil	17-Oct-07 09:45	18-Oct-07 16:40
SA69729-55	S9S10S11-8-10	Soil	17-Oct-07 10:35	18-Oct-07 16:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Please note that this report contains 57 pages of analytical data plus Chain of Custody document(s).

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Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.

President/Laboratory Director

Technical Reviewer's Initial:

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CASE NARRATIVE:

The data set for this work order complies with internal QC criteria for the methods performed. The samples were received @ 9.0 degrees Celsius. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

Please refer to "Notes and Definitions" for all sample/analyte qualifiers. Qualifiers will narrate any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

Sample Identification**S1-0-2**

SA69729-01

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 13:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.1	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	30.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.1	1	"	"	"	"	"
11097-69-1	PCB 1254	6,240		µg/kg dry	30.1	1	"	"	"	"	"
11096-82-5	PCB 1260	3,760		µg/kg dry	30.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	14,400		mg/kg dry	72.7	50	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	92.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

Sample Identification**S1-2-4**

SA69729-02

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 13:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.3	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	32.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.3	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	228		mg/kg dry	1.73	1	SW846 6010B	24-Oct-07	26-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	86.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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BRL = Below Reporting Limit

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Sample Identification

S1-4-6
SA69729-03

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 13:00

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.2	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.2	1	"	"	"	"	"
11097-69-1	PCB 1254	6,630		µg/kg dry	32.2	1	"	"	"	"	"
11096-82-5	PCB 1260	7,730		µg/kg dry	32.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.2	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	70			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	4,340		mg/kg dry	1.66	1	SW846 6010B	24-Oct-07	26-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	84.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

Sample Identification

S1-6-8
SA69729-04

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 13:00

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	36.6	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	36.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	36.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	36.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	36.6	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	36.6	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	36.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	36.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	36.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	62			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	550		mg/kg dry	1.92	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	75.7		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample IdentificationS2-0-2
SA69729-05Client Project #
458-01/001Matrix
SoilCollection Date/Time
17-Oct-07 09:20Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.1	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11097-69-1	PCB 1254	38,800	E	µg/kg dry	31.1	1	"	"	"	"	"
11096-82-5	PCB 1260	10,900	E	µg/kg dry	31.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.1	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	622	20	SW846 8082	19-Oct-07	01-Nov-07	7101294	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	622	20	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	622	20	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	622	20	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	622	20	"	"	"	"	"
11097-69-1	PCB 1254	36,900		µg/kg dry	622	20	"	"	"	"	"
11096-82-5	PCB 1260	11,600		µg/kg dry	622	20	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	622	20	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	622	20	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	107,000		mg/kg dry	146	100	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	89.7		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample IdentificationS2-2-4
SA69729-06Client Project #
458-01/001Matrix
SoilCollection Date/Time
17-Oct-07 09:20Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.6	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	34.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	68			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,060		mg/kg dry	1.61	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	80.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

Sample IdentificationS2-4-6
SA69729-07Client Project #
458-01/001Matrix
SoilCollection Date/Time
17-Oct-07 09:20Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	37.3	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	37.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	37.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	37.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	37.3	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	37.3	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	37.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	37.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	37.3	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	67			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	122			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	300		mg/kg dry	1.98	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	72.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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BRL = Below Reporting Limit

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Sample Identification

S2-6-8
SA69729-08

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 09:20

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.9	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	34.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.9	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	34.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	97		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	341		mg/kg dry	1.72	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	77.3		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S3-0-2**

SA69729-09

Client Project #

458-01/001

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.3	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11097-69-1	PCB 1254	41,900	E	µg/kg dry	32.3	1	"	"	"	"	"
11096-82-5	PCB 1260	14,300	E	µg/kg dry	32.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.3	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	78			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	647	20	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	647	20	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	647	20	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	647	20	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	647	20	"	"	"	"	"
11097-69-1	PCB 1254	43,500		µg/kg dry	647	20	"	"	"	"	"
11096-82-5	PCB 1260	14,200		µg/kg dry	647	20	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	647	20	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	647	20	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	74,400		mg/kg dry	164	100	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	86.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample Identification

S3-2-4
SA69729-10

Client Project #
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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.8	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	30.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	30.8	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	30.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.8	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	561		mg/kg dry	1.42	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	90.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

Sample Identification

S3-4-6
SA69729-11

Client Project #
458-01/001

Matrix
Soil

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17-Oct-07 09:10

Received
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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.6	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	34.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	102			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,080		mg/kg dry	1.74	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	80.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample Identification**S3-6-8**

SA69729-12

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Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.9	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	35.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	78		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	122		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	333		mg/kg dry	1.92	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	75.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample Identification**S4-0-2**

SA69729-13

Client Project #

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.2	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	35.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	35.2	1	"	"	"	"	"
11097-69-1	PCB 1254	34,800	E	µg/kg dry	35.2	1	"	"	"	"	"
11096-82-5	PCB 1260	6,450		µg/kg dry	35.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.2	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	42			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	70			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	705	20	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	705	20	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	705	20	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	705	20	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	705	20	"	"	"	"	"
11097-69-1	PCB 1254	35,000		µg/kg dry	705	20	"	"	"	"	"
11096-82-5	PCB 1260	6,510		µg/kg dry	705	20	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	705	20	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	705	20	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	104,000		mg/kg dry	162	100	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	79.4		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample Identification

S4-2-4
SA69729-14

Client Project #
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Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	36.3	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	36.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	36.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	36.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	36.3	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	36.3	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	36.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	36.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	36.3	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	47			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,030		mg/kg dry	1.74	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	76.4		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

Sample Identification

S4-4-6
SA69729-15

Client Project #
458-01/001

Matrix
Soil

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17-Oct-07 08:40

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	57.8	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	57.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	57.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	57.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	57.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	57.8	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	57.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	57.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	57.8	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	43			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,470		mg/kg dry	3.05	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	HB
General Chemistry Parameters											
	% Solids	47.4		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample Identification

S4-6-8
SA69729-16

Client Project #
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Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	37.5	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	37.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	37.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	37.5	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	37.5	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	37.5	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	37.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	37.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	37.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	60		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	538		mg/kg dry	1.70	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	SA
General Chemistry Parameters											
	% Solids	74.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample IdentificationS5-0-2
SA69729-17Client Project #
458-01/001Matrix
SoilCollection Date/Time
17-Oct-07 10:10Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.2	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.2	1	"	"	"	"	"
11097-69-1	PCB 1254	21,800	E	µg/kg dry	32.2	1	"	"	"	"	"
11096-82-5	PCB 1260	58,300	E	µg/kg dry	32.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.2	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	38			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	92			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	644	20	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	644	20	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	644	20	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	644	20	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	644	20	"	"	"	"	"
11097-69-1	PCB 1254	23,600		µg/kg dry	644	20	"	"	"	"	"
11096-82-5	PCB 1260	59,900		µg/kg dry	644	20	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	644	20	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	644	20	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	106,000		mg/kg dry	169	100	SW846 6010B	24-Oct-07	29-Oct-07	7101680	SA
General Chemistry Parameters											
	% Solids	86.4		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample IdentificationS5-2-4
SA69729-18Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:10

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.8	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	33.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	33.8	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	33.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.8	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,300		mg/kg dry	1.66	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	SA
General Chemistry Parameters											
	% Solids	81.4		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

Sample IdentificationS5-4-6
SA69729-19Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:10

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.7	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.7	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	31.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	77			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	927		mg/kg dry	3.08	2	SW846 6010B	24-Oct-07	29-Oct-07	7101680	SA
General Chemistry Parameters											
	% Solids	86.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S5-6-8**

SA69729-20

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	39.2	1	SW846 8082	19-Oct-07	31-Oct-07	7101294	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	39.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	39.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	39.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	39.2	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	39.2	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	39.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	39.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	39.2	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	57		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	65		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	153		mg/kg dry	1.95	1	SW846 6010B	24-Oct-07	29-Oct-07	7101680	SA
General Chemistry Parameters											
	% Solids	70.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101714	DG

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Sample Identification**S6-0-2**

SA69729-21

Client Project #

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	29.9	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	29.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	29.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	29.9	1	"	"	"	"	"
12672-29-6	PCB 1248	6,920		µg/kg dry	29.9	1	"	"	"	"	"
11097-69-1	PCB 1254	10,500	E	µg/kg dry	29.9	1	"	"	"	"	"
11096-82-5	PCB 1260	14,200	E	µg/kg dry	29.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	29.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	29.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	299	10	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	299	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	299	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	299	10	"	"	"	"	"
12672-29-6	PCB 1248	7,090		µg/kg dry	299	10	"	"	"	"	"
11097-69-1	PCB 1254	12,300		µg/kg dry	299	10	"	"	"	"	"
11096-82-5	PCB 1260	16,700		µg/kg dry	299	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	299	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	299	10	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	87,400		mg/kg dry	136	100	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	92.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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Sample Identification**S6-2-4**

SA69729-22

Client Project #

458-01/001

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.9	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11097-69-1	PCB 1254	586,000	E	µg/kg dry	30.9	1	"	"	"	"	"
11096-82-5	PCB 1260	1,030,000	E	µg/kg dry	30.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.9	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	225	S02		30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	30900	1000	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	30900	1000	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30900	1000	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30900	1000	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30900	1000	"	"	"	"	"
11097-69-1	PCB 1254	467,000		µg/kg dry	30900	1000	"	"	"	"	"
11096-82-5	PCB 1260	1,130,000		µg/kg dry	30900	1000	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30900	1000	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30900	1000	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)		S01		30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	50,900		mg/kg dry	74.7	50	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	89.5		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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Sample Identification

S6-4-6
SA69729-23

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 09:55

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.6	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	31.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.6	1	"	"	"	"	"
11097-69-1	PCB 1254	1,400		µg/kg dry	31.6	1	"	"	"	"	"
11096-82-5	PCB 1260	3,130		µg/kg dry	31.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	8,020		mg/kg dry	1.53	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	87.4		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

Sample Identification

S6-6-8
SA69729-24

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 09:55

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	37.0	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	37.0	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	37.0	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	37.0	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	37.0	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	37.0	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	37.0	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	37.0	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	37.0	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	116		mg/kg dry	1.80	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	75.2		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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Sample IdentificationS7-0-2
SA69729-25Client Project #
458-01/001Matrix
SoilCollection Date/Time
17-Oct-07 09:50Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.2	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	31.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.2	1	"	"	"	"	"
12672-29-6	PCB 1248	22,800	E	µg/kg dry	31.2	1	"	"	"	"	"
11097-69-1	PCB 1254	14,800	E	µg/kg dry	31.2	1	"	"	"	"	"
11096-82-5	PCB 1260	7,140		µg/kg dry	31.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.2	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	312	10	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	312	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	312	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	312	10	"	"	"	"	"
12672-29-6	PCB 1248	21,900		µg/kg dry	312	10	"	"	"	"	"
11097-69-1	PCB 1254	10,600		µg/kg dry	312	10	"	"	"	"	"
11096-82-5	PCB 1260	7,840		µg/kg dry	312	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	312	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	312	10	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	200	S06		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	94,800		mg/kg dry	149	100	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	87.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

S7-2-4
SA69729-26

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 09:50

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.7	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.7	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11097-69-1	PCB 1254	2,280		µg/kg dry	31.7	1	"	"	"	"	"
11096-82-5	PCB 1260	3,350		µg/kg dry	31.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	145			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	11,700		mg/kg dry	32.6	20	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	86.5		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

Sample Identification

S7-4-6
SA69729-27

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 09:50

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.7	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	33.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.7	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.7	1	"	"	"	"	"
11097-69-1	PCB 1254	141		µg/kg dry	33.7	1	"	"	"	"	"
11096-82-5	PCB 1260	254		µg/kg dry	33.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	145			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,350		mg/kg dry	1.59	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	82.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

S7-6-8
SA69729-28

Client Project #
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Matrix
Soil

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Received
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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.9	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	35.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	200	S02	30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	140		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,220		mg/kg dry	1.76	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	75.3		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S8-0-2**

SA69729-29

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

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Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.0	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.0	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.0	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.0	1	"	"	"	"	"
12672-29-6	PCB 1248	5,410		µg/kg dry	32.0	1	"	"	"	"	"
11097-69-1	PCB 1254	20,800	E	µg/kg dry	32.0	1	"	"	"	"	"
11096-82-5	PCB 1260	6,710		µg/kg dry	32.0	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.0	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.0	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	320	10	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	320	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	320	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	320	10	"	"	"	"	"
12672-29-6	PCB 1248	6,480		µg/kg dry	320	10	"	"	"	"	"
11097-69-1	PCB 1254	19,100		µg/kg dry	320	10	"	"	"	"	"
11096-82-5	PCB 1260	5,840		µg/kg dry	320	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	320	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	320	10	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	91,800		mg/kg dry	156	100	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	84.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

S8-2-4
SA69729-30

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.5	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.5	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	33.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,440		mg/kg dry	1.63	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	81.5		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

Sample Identification

S8-4-6
SA69729-31

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 09:35

Received
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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.7	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.7	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.7	1	"	"	"	"	"
11097-69-1	PCB 1254	322		µg/kg dry	32.7	1	"	"	"	"	"
11096-82-5	PCB 1260	250		µg/kg dry	32.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,250		mg/kg dry	1.68	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	84.8		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

S8-6-8
SA69729-32

Client Project #
458-01/001

Matrix
Soil

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17-Oct-07 09:35

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.5	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	34.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.5	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.5	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.5	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	34.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.5	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	161		mg/kg dry	1.55	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	80.8		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

Sample Identification

S9-0-2
SA69729-33

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 10:45

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	29.1	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	29.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	29.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	29.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	29.1	1	"	"	"	"	"
11097-69-1	PCB 1254	3,710		µg/kg dry	29.1	1	"	"	"	"	"
11096-82-5	PCB 1260	5,300		µg/kg dry	29.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	29.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	29.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	88,000		mg/kg dry	148	100	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	92.7		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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Sample Identification

S9-2-4
SA69729-34

Client Project #
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Matrix
Soil

Collection Date/Time
17-Oct-07 10:45

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.3	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11097-69-1	PCB 1254	10,400	E	µg/kg dry	32.3	1	"	"	"	"	"
11096-82-5	PCB 1260	24,800	E	µg/kg dry	32.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.3	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	140			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.3	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	323	10	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	323	10	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	323	10	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	323	10	"	"	"	"	"
11097-69-1	PCB 1254	11,100		µg/kg dry	323	10	"	"	"	"	"
11096-82-5	PCB 1260	25,200		µg/kg dry	323	10	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	323	10	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	323	10	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	250	S06		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	200	S06		30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	115,000		mg/kg dry	168	100	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	86.8		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification

S9-4-6
SA69729-35

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 10:45

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.1	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11097-69-1	PCB 1254	243		µg/kg dry	31.1	1	"	"	"	"	"
11096-82-5	PCB 1260	666		µg/kg dry	31.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	27,600		mg/kg dry	74.9	50	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	88.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

Sample Identification

S9-6-8
SA69729-36

Client Project #
458-01/001

Matrix
Soil

Collection Date/Time
17-Oct-07 10:45

Received
18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.2	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	34.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.2	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.2	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	34.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.2	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	149		mg/kg dry	1.63	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	81.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S10-0-2**

SA69729-37

Client Project #

458-01/001

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.7	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	30.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.7	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.7	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	30.7	1	"	"	"	"	"
11096-82-5	PCB 1260	129,000	E	µg/kg dry	30.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.7	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	140			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	1540	50	SW846 8082	19-Oct-07	01-Nov-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	1540	50	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	1540	50	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	1540	50	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	1540	50	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	1540	50	"	"	"	"	"
11096-82-5	PCB 1260	199,000		µg/kg dry	1540	50	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	1540	50	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	1540	50	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	250	S06		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	250	S06		30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	33,500		mg/kg dry	71.6	50	SW846 6010B	24-Oct-07	28-Oct-07	7101682	SA/
General Chemistry Parameters											
	% Solids	88.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S10-2-4**

SA69729-38

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:30

Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	34.1	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	34.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	34.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11096-82-5	PCB 1260	9,770	E	µg/kg dry	34.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	34.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	34.1	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	130			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	170	5	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	170	5	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	170	5	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	170	5	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	170	5	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	170	5	"	"	"	"	"
11096-82-5	PCB 1260	9,760		µg/kg dry	170	5	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	170	5	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	170	5	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	25	S06		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,200		mg/kg dry	1.80	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	80.3		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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* Reportable Detection Limit

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Sample Identification**S10-4-6**

SA69729-39

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:30

Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	29.6	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	29.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	29.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	29.6	1	"	"	"	"	"
12672-29-6	PCB 1248	334		µg/kg dry	29.6	1	"	"	"	"	"
11097-69-1	PCB 1254	2,650		µg/kg dry	29.6	1	"	"	"	"	"
11096-82-5	PCB 1260	4,140		µg/kg dry	29.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	29.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	29.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	7,080		mg/kg dry	1.65	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	90.7		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

Sample Identification**S10-6-8**

SA69729-40

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:30

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	35.7	1	SW846 8082	19-Oct-07	31-Oct-07	7101295	RP/
11104-28-2	PCB 1221	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	35.7	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	35.7	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	35.7	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	35.7	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	35.7	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	140			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	479		mg/kg dry	1.68	1	SW846 6010B	24-Oct-07	26-Oct-07	7101682	HB
General Chemistry Parameters											
	% Solids	76.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101716	DG

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BRL = Below Reporting Limit

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Sample Identification**S11-0-2**

SA69729-41

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:20

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.5	1	SW846 8082	19-Oct-07	31-Oct-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	31.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.5	1	"	"	"	"	"
12672-29-6	PCB 1248	1,290		µg/kg dry	31.5	1	"	"	"	"	"
11097-69-1	PCB 1254	9,100	E	µg/kg dry	31.5	1	"	"	"	"	"
11096-82-5	PCB 1260	3,150		µg/kg dry	31.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.5	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	157	5	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	157	5	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	157	5	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	157	5	"	"	"	"	"
12672-29-6	PCB 1248	1,480		µg/kg dry	157	5	"	"	"	"	"
11097-69-1	PCB 1254	9,750		µg/kg dry	157	5	"	"	"	"	"
11096-82-5	PCB 1260	3,660		µg/kg dry	157	5	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	157	5	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	157	5	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	53,600		mg/kg dry	163	100	SW846 6010B	24-Oct-07	29-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	86.6		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S11-2-4**

SA69729-42

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:20

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.4	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	30.4	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.4	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.4	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	30.4	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	30.4	1	"	"	"	"	"
11096-82-5	PCB 1260	627		µg/kg dry	30.4	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.4	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.4	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	145			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,870		mg/kg dry	1.58	1	SW846 6010B	24-Oct-07	28-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	88.3		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

Sample Identification**S11-4-6**

SA69729-43

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:20

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.8	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	31.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	31.8	1	"	"	"	"	"
11097-69-1	PCB 1254	649		µg/kg dry	31.8	1	"	"	"	"	"
11096-82-5	PCB 1260	789		µg/kg dry	31.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.8	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	160	S04		30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,140		mg/kg dry	1.55	1	SW846 6010B	24-Oct-07	28-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	87.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S11-6-8**

SA69729-44

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:20

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	40.3	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	40.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	40.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	40.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	40.3	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	40.3	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	40.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	40.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	40.3	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	503		mg/kg dry	1.82	1	SW846 6010B	24-Oct-07	28-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	68.8		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

Sample Identification**S12-0-2**

SA69729-45

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 11:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	30.1	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	30.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	30.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	30.1	1	"	"	"	"	"
12672-29-6	PCB 1248	2,460		µg/kg dry	30.1	1	"	"	"	"	"
11097-69-1	PCB 1254	5,480		µg/kg dry	30.1	1	"	"	"	"	"
11096-82-5	PCB 1260	4,400		µg/kg dry	30.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	30.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	30.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	15,300		mg/kg dry	150	100	SW846 6010B	24-Oct-07	29-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	90.7		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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Sample Identification**S12-2-4**

SA69729-46

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 11:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.1	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.1	1	"	"	"	"	"
12672-29-6	PCB 1248	395,000	E	µg/kg dry	32.1	1	"	"	"	"	"
11097-69-1	PCB 1254	1,350,000	E	µg/kg dry	32.1	1	"	"	"	"	"
11096-82-5	PCB 1260	212,000	E	µg/kg dry	32.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.1	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	50			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	32100	1000	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	32100	1000	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32100	1000	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32100	1000	"	"	"	"	"
12672-29-6	PCB 1248	787,000		µg/kg dry	32100	1000	"	"	"	"	"
11097-69-1	PCB 1254	4,810,000		µg/kg dry	32100	1000	"	"	"	"	"
11096-82-5	PCB 1260	115,000		µg/kg dry	32100	1000	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32100	1000	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32100	1000	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)		S06		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)		S06		30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	57,700		mg/kg dry	156	100	SW846 6010B	24-Oct-07	29-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	85.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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Sample Identification**S12-4-6**

SA69729-47

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 11:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.6	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.6	1	"	"	"	"	"
12672-29-6	PCB 1248	6,240		µg/kg dry	33.6	1	"	"	"	"	"
11097-69-1	PCB 1254	38,300	E	µg/kg dry	33.6	1	"	"	01-Nov-07	"	"
11096-82-5	PCB 1260	15,800	E	µg/kg dry	33.6	1	"	"	01-Nov-07	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.6	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	15	S01		30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	672	20	SW846 8082	19-Oct-07	02-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	672	20	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	672	20	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	672	20	"	"	"	"	"
12672-29-6	PCB 1248	6,650		µg/kg dry	672	20	"	"	"	"	"
11097-69-1	PCB 1254	43,100		µg/kg dry	672	20	"	"	"	"	"
11096-82-5	PCB 1260	18,100		µg/kg dry	672	20	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	672	20	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	672	20	"	"	"	"	"
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	13,700		mg/kg dry	174	100	SW846 6010B	24-Oct-07	29-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	82.2		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S12-6-8**

SA69729-48

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 11:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	36.8	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	36.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	36.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	36.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	36.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	36.8	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	36.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	36.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	36.8	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	125		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	70		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	591		mg/kg dry	1.93	1	SW846 6010B	24-Oct-07	28-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	72.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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Sample Identification**S13S14S15-0-2**

SA69729-49

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 12:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	31.1	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	31.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	31.1	1	"	"	"	"	"
12672-29-6	PCB 1248	9,130	E	µg/kg dry	31.1	1	"	"	"	"	"
11097-69-1	PCB 1254	27,500	E	µg/kg dry	31.1	1	"	"	"	"	"
11096-82-5	PCB 1260	16,500	E	µg/kg dry	31.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	31.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	31.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %		"	"	"	"	"
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
12674-11-2	PCB 1016	BRL		µg/kg dry	623	20	SW846 8082	19-Oct-07	02-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	623	20	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	623	20	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	623	20	"	"	"	"	"
12672-29-6	PCB 1248	10,500		µg/kg dry	623	20	"	"	"	"	"
11097-69-1	PCB 1254	28,200		µg/kg dry	623	20	"	"	"	"	"
11096-82-5	PCB 1260	19,700		µg/kg dry	623	20	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	623	20	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	623	20	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	94,600		mg/kg dry	163	100	SW846 6010B	24-Oct-07	29-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	86.7		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S13S14S15-2-4**

SA69729-50

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 12:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	33.6	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	33.6	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	33.6	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11097-69-1	PCB 1254	5,280		µg/kg dry	33.6	1	"	"	"	"	"
11096-82-5	PCB 1260	1,510		µg/kg dry	33.6	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	33.6	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	33.6	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	70			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	9,890		mg/kg dry	92.1	50	SW846 6010B	24-Oct-07	29-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	81.0		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

Sample Identification**S13S14S15-4-6**

SA69729-51

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 12:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	32.1	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	32.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	32.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11097-69-1	PCB 1254	2,150		µg/kg dry	32.1	1	"	"	"	"	"
11096-82-5	PCB 1260	615		µg/kg dry	32.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	32.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	32.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %		"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %		"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	4,340		mg/kg dry	1.51	1	SW846 6010B	24-Oct-07	28-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	84.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S13S14S15-6-8**

SA69729-52

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 12:00

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	PCB 1016	BRL		µg/kg dry	36.1	1	SW846 8082	19-Oct-07	01-Nov-07	7101296	RP
11104-28-2	PCB 1221	BRL		µg/kg dry	36.1	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	36.1	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	36.1	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	36.1	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	36.1	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	36.1	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	36.1	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	36.1	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	105		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	282		mg/kg dry	1.95	1	SW846 6010B	24-Oct-07	28-Oct-07	7101683	SA
General Chemistry Parameters											
	% Solids	76.1		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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Sample Identification
S2S3S4-8-10
 SA69729-53

Client Project #
 458-01/001

Matrix
 Soil

Collection Date/Time
 17-Oct-07 09:00

Received
 18-Oct-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
EPH Aliphatic/Aromatic Ranges											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	3,730		mg/kg dry	41.8	1	MADEP EPH 5/2004	23-Oct-07	25-Oct-07	7101575	M.B
							R				
	C19-C36 Aliphatic Hydrocarbons	769		mg/kg dry	41.8	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	1,510		mg/kg dry	41.8	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic	1,520		mg/kg dry	41.8	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	6,010		mg/kg dry	41.8	1	"	"	"	"	"
	Unadjusted Total Petroleum	6,020		mg/kg dry	41.8	1	"	"	"	"	"
EPH Target PAH Analytes											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	271		µg/kg dry	208	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	208	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/kg dry	208	1	"	"	"	"	"
83-32-9	Acenaphthene	2,580		µg/kg dry	208	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	208	1	"	"	"	"	"
85-01-8	Phenanthrene	3,060		µg/kg dry	208	1	"	"	"	"	"
120-12-7	Anthracene	1,350		µg/kg dry	208	1	"	"	"	"	"
206-44-0	Fluoranthene	1,910		µg/kg dry	208	1	"	"	"	"	"
129-00-0	Pyrene	1,950		µg/kg dry	208	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	576		µg/kg dry	208	1	"	"	"	"	"
218-01-9	Chrysene	718		µg/kg dry	208	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	522		µg/kg dry	208	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	555		µg/kg dry	208	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	774		µg/kg dry	208	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	269		µg/kg dry	208	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	208	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	380		µg/kg dry	208	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	1-Chlorooctadecane	43		40-140 %			"	"	"	"	"
84-15-1	Ortho-Terphenyl	51		40-140 %			"	"	"	"	"
321-60-8	2-Fluorobiphenyl	71		40-140 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	72.3		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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Sample Identification
S5S6S7S8-8-10
 SA69729-54

Client Project #
 458-01/001

Matrix
 Soil

Collection Date/Time
 17-Oct-07 09:45

Received
 18-Oct-07

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	128		mg/kg dry	44.5	1	MADEP EPH 5/2004	23-Oct-07	25-Oct-07	7101575	M.B
							R				
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	44.5	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	73.5		mg/kg dry	44.5	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic	75.6		mg/kg dry	44.5	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	201		mg/kg dry	44.5	1	"	"	"	"	"
	Unadjusted Total Petroleum	204		mg/kg dry	44.5	1	"	"	"	"	"
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	222	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	222	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/kg dry	222	1	"	"	"	"	"
83-32-9	Acenaphthene	BRL		µg/kg dry	222	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	222	1	"	"	"	"	"
85-01-8	Phenanthrene	434		µg/kg dry	222	1	"	"	"	"	"
120-12-7	Anthracene	262		µg/kg dry	222	1	"	"	"	"	"
206-44-0	Fluoranthene	603		µg/kg dry	222	1	"	"	"	"	"
129-00-0	Pyrene	520		µg/kg dry	222	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	222	1	"	"	"	"	"
218-01-9	Chrysene	331		µg/kg dry	222	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	222	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	222	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	222	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	222	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	222	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	222	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	57		40-140 %			"	"	"	"	"
84-15-1	Ortho-Terphenyl	54		40-140 %			"	"	"	"	"
321-60-8	2-Fluorobiphenyl	58		40-140 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	66.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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Sample Identification**S9S10S11-8-10**

SA69729-55

Client Project #

458-01/001

Matrix

Soil

Collection Date/Time

17-Oct-07 10:35

Received

18-Oct-07

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	2,820		mg/kg dry	37.1	1	MADEP EPH 5/2004 R	23-Oct-07	25-Oct-07	7101575	M.B
	C19-C36 Aliphatic Hydrocarbons	534		mg/kg dry	37.1	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	1,080		mg/kg dry	37.1	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic	1,090		mg/kg dry	37.1	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	4,440		mg/kg dry	37.1	1	"	"	"	"	"
	Unadjusted Total Petroleum	4,450		mg/kg dry	37.1	1	"	"	"	"	"
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	222		µg/kg dry	185	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	185	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/kg dry	185	1	"	"	"	"	"
83-32-9	Acenaphthene	1,830		µg/kg dry	185	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	185	1	"	"	"	"	"
85-01-8	Phenanthrene	1,300		µg/kg dry	185	1	"	"	"	"	"
120-12-7	Anthracene	1,140		µg/kg dry	185	1	"	"	"	"	"
206-44-0	Fluoranthene	1,860		µg/kg dry	185	1	"	"	"	"	"
129-00-0	Pyrene	1,620		µg/kg dry	185	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	374		µg/kg dry	185	1	"	"	"	"	"
218-01-9	Chrysene	456		µg/kg dry	185	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	282		µg/kg dry	185	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	348		µg/kg dry	185	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	185	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	185	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	185	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	209		µg/kg dry	185	1	"	"	"	"	"
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	58		40-140 %			"	"	"	"	"
84-15-1	Ortho-Terphenyl	68		40-140 %			"	"	"	"	"
321-60-8	2-Fluorobiphenyl	68		40-140 %			"	"	"	"	"
General Chemistry Parameters											
	% Solids	75.9		%		1	SM2540 G Mod.	24-Oct-07	24-Oct-07	7101717	DG

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101294 - SW846 3540C										
Blank (7101294-BLK1)										
Prepared: 19-Oct-07 Analyzed: 01-Nov-07										
PCB 1016	BRL		µg/kg wet	28.6						
PCB 1221	BRL		µg/kg wet	28.6						
PCB 1232	BRL		µg/kg wet	28.6						
PCB 1242	BRL		µg/kg wet	28.6						
PCB 1248	BRL		µg/kg wet	28.6						
PCB 1254	BRL		µg/kg wet	28.6						
PCB 1260	BRL		µg/kg wet	28.6						
PCB 1262	BRL		µg/kg wet	28.6						
PCB 1268	BRL		µg/kg wet	28.6						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	30.0		µg/kg wet		57.1		52	30-150		
Surrogate: Decachlorobiphenyl (Sr)	35.7		µg/kg wet		57.1		63	30-150		
LCS (7101294-BS1)										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	533		µg/kg wet	28.6	714		75	40-140		
PCB 1260	649		µg/kg wet	28.6	714		91	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	28.6		µg/kg wet		57.1		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	45.7		µg/kg wet		57.1		80	30-150		
LCS Dup (7101294-BSD1)										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	544		µg/kg wet	28.6	714		76	40-140	2	30
PCB 1260	647		µg/kg wet	28.6	714		91	40-140	0.2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	28.6		µg/kg wet		57.1		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	45.7		µg/kg wet		57.1		80	30-150		
Duplicate (7101294-DUP1) Source: SA69729-01										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	BRL		µg/kg dry	29.6		BRL				40
PCB 1221	BRL		µg/kg dry	29.6		BRL				40
PCB 1232	BRL		µg/kg dry	29.6		BRL				40
PCB 1242	BRL		µg/kg dry	29.6		BRL				40
PCB 1248	BRL		µg/kg dry	29.6		BRL				40
PCB 1254	6720		µg/kg dry	29.6		6240			7	40
PCB 1260	5980	QM4	µg/kg dry	29.6		3760			46	40
PCB 1262	BRL		µg/kg dry	29.6		BRL				40
PCB 1268	BRL		µg/kg dry	29.6		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	28.1		µg/kg dry		59.1		48	30-150		
Surrogate: Decachlorobiphenyl (Sr)	57.6		µg/kg dry		59.1		98	30-150		
Matrix Spike (7101294-MS1) Source: SA69729-01										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	1350	QM5	µg/kg dry	29.8	373	BRL	362	40-140		
PCB 1260	7140	QM5	µg/kg dry	29.8	373	3760	906	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	26.8		µg/kg dry		59.6		45	30-150		
Surrogate: Decachlorobiphenyl (Sr)	53.7		µg/kg dry		59.6		90	30-150		
Matrix Spike Dup (7101294-MSD1) Source: SA69729-01										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	1170	QM5	µg/kg dry	29.8	372	BRL	314	40-140	14	50
PCB 1260	6270	QM5	µg/kg dry	29.8	372	3760	675	40-140	29	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.8		µg/kg dry		59.5		35	30-150		
Surrogate: Decachlorobiphenyl (Sr)	41.6		µg/kg dry		59.5		70	30-150		
Batch 7101295 - SW846 3540C										

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101295 - SW846 3540C										
<u>Blank (7101295-BLK1)</u>										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	BRL		µg/kg wet	28.6						
PCB 1221	BRL		µg/kg wet	28.6						
PCB 1232	BRL		µg/kg wet	28.6						
PCB 1242	BRL		µg/kg wet	28.6						
PCB 1248	BRL		µg/kg wet	28.6						
PCB 1254	BRL		µg/kg wet	28.6						
PCB 1260	BRL		µg/kg wet	28.6						
PCB 1262	BRL		µg/kg wet	28.6						
PCB 1268	BRL		µg/kg wet	28.6						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	27.1		µg/kg wet		28.6		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	35.7		µg/kg wet		28.6		125	30-150		
<u>LCS (7101295-BS1)</u>										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	430		µg/kg wet	28.6	357		120	40-140		
PCB 1260	451		µg/kg wet	28.6	357		126	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	32.9		µg/kg wet		28.6		115	30-150		
Surrogate: Decachlorobiphenyl (Sr)	38.6		µg/kg wet		28.6		135	30-150		
<u>LCS Dup (7101295-BSD1)</u>										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	447		µg/kg wet	28.6	357		125	40-140	4	30
PCB 1260	470		µg/kg wet	28.6	357		132	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	25.7		µg/kg wet		28.6		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	40.0		µg/kg wet		28.6		140	30-150		
<u>Duplicate (7101295-DUP1)</u> Source: SA69729-21										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	BRL		µg/kg dry	29.7		BRL				40
PCB 1221	BRL		µg/kg dry	29.7		BRL				40
PCB 1232	BRL		µg/kg dry	29.7		BRL				40
PCB 1242	BRL		µg/kg dry	29.7		BRL				40
PCB 1248	16200	E, QM4	µg/kg dry	29.7		6920			80	40
PCB 1254	15000	E	µg/kg dry	29.7		10500			35	40
PCB 1260	14100	E	µg/kg dry	29.7		14200			1	40
PCB 1262	BRL		µg/kg dry	29.7		BRL				40
PCB 1268	BRL		µg/kg dry	29.7		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	22.3		µg/kg dry		29.7		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	43.1		µg/kg dry		29.7		145	30-150		
<u>Duplicate (7101295-DUP2)</u> Source: SA69729-21										
Prepared: 19-Oct-07 Analyzed: 01-Nov-07										
PCB 1016	BRL		µg/kg dry	297		BRL				40
PCB 1221	BRL		µg/kg dry	297		BRL				40
PCB 1232	BRL		µg/kg dry	297		BRL				40
PCB 1242	BRL		µg/kg dry	297		BRL				40
PCB 1248	13300	QM4	µg/kg dry	297		6920			63	40
PCB 1254	13300		µg/kg dry	297		10500			24	40
PCB 1260	12600		µg/kg dry	297		14200			12	40
PCB 1262	BRL		µg/kg dry	297		BRL				40
PCB 1268	BRL		µg/kg dry	297		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	44.5		µg/kg dry		29.7		150	30-150		
Surrogate: Decachlorobiphenyl (Sr)	29.7		µg/kg dry		29.7		100	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101295 - SW846 3540C										
Matrix Spike (7101295-MS1) Source: SA69729-21										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	3360	QM2	µg/kg dry	29.8	372	BRL	904	40-140		
PCB 1260	25700	QM2	µg/kg dry	29.8	372	14200	3080	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	23.8		µg/kg dry		29.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	43.1		µg/kg dry		29.7		145	30-150		
Matrix Spike Dup (7101295-MSD1) Source: SA69729-21										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	1860	QM2	µg/kg dry	29.8	373	BRL	498	40-140	58	50
PCB 1260	15100	QM2	µg/kg dry	29.8	373	14200	232	40-140	172	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	34.3		µg/kg dry		29.8		115	30-150		
Surrogate: Decachlorobiphenyl (Sr)	40.3		µg/kg dry		29.8		135	30-150		
Batch 7101296 - SW846 3540C										
Blank (7101296-BLK1)										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	BRL		µg/kg wet	28.6						
PCB 1221	BRL		µg/kg wet	28.6						
PCB 1232	BRL		µg/kg wet	28.6						
PCB 1242	BRL		µg/kg wet	28.6						
PCB 1248	BRL		µg/kg wet	28.6						
PCB 1254	BRL		µg/kg wet	28.6						
PCB 1260	BRL		µg/kg wet	28.6						
PCB 1262	BRL		µg/kg wet	28.6						
PCB 1268	BRL		µg/kg wet	28.6						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	30.0		µg/kg wet		28.6		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	30.0		µg/kg wet		28.6		105	30-150		
LCS (7101296-BS1)										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	479		µg/kg wet	28.6	357		134	40-140		
PCB 1260	471		µg/kg wet	28.6	357		132	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	31.4		µg/kg wet		28.6		110	30-150		
Surrogate: Decachlorobiphenyl (Sr)	30.0		µg/kg wet		28.6		105	30-150		
LCS Dup (7101296-BSD1)										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	423		µg/kg wet	28.6	357		118	40-140	12	30
PCB 1260	393		µg/kg wet	28.6	357		110	40-140	18	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	25.7		µg/kg wet		28.6		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	42.9		µg/kg wet		28.6		150	30-150		
Duplicate (7101296-DUP1) Source: SA69729-41										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	BRL		µg/kg dry	31.2		BRL				40
PCB 1221	BRL		µg/kg dry	31.2		BRL				40
PCB 1232	BRL		µg/kg dry	31.2		BRL				40
PCB 1242	BRL		µg/kg dry	31.2		BRL				40
PCB 1248	1230		µg/kg dry	31.2		1290			5	40
PCB 1254	8720	E	µg/kg dry	31.2		9100			4	40
PCB 1260	2820		µg/kg dry	31.2		3150			11	40
PCB 1262	BRL		µg/kg dry	31.2		BRL				40
PCB 1268	BRL		µg/kg dry	31.2		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	38.9		µg/kg dry		31.1		125	30-150		
Surrogate: Decachlorobiphenyl (Sr)	32.7		µg/kg dry		31.1		105	30-150		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101296 - SW846 3540C										
<u>Duplicate (7101296-DUP2)</u> Source: SA69729-41										
Prepared: 19-Oct-07 Analyzed: 01-Nov-07										
PCB 1016	BRL		µg/kg dry	156		BRL				40
PCB 1221	BRL		µg/kg dry	156		BRL				40
PCB 1232	BRL		µg/kg dry	156		BRL				40
PCB 1242	BRL		µg/kg dry	156		BRL				40
PCB 1248	1690		µg/kg dry	156		1290			27	40
PCB 1254	10500		µg/kg dry	156		9100			14	40
PCB 1260	3700		µg/kg dry	156		3150			16	40
PCB 1262	BRL		µg/kg dry	156		BRL				40
PCB 1268	BRL		µg/kg dry	156		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	38.9		µg/kg dry		31.1		125	30-150		
Surrogate: Decachlorobiphenyl (Sr)	38.9		µg/kg dry		31.1		125	30-150		
<u>Matrix Spike (7101296-MS1)</u> Source: SA69729-41										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	1050	QM2	µg/kg dry	31.1	389	BRL	270	40-140		
PCB 1260	3210	QM2	µg/kg dry	31.1	389	3150	15	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	38.9		µg/kg dry		31.1		125	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.3		µg/kg dry		31.1		75	30-150		
<u>Matrix Spike Dup (7101296-MSD1)</u> Source: SA69729-41										
Prepared: 19-Oct-07 Analyzed: 31-Oct-07										
PCB 1016	831	QM2	µg/kg dry	31.6	395	BRL	210	40-140	25	50
PCB 1260	4420	QM2	µg/kg dry	31.6	395	3150	321	40-140	182	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	42.6		µg/kg dry		31.6		135	30-150		
Surrogate: Decachlorobiphenyl (Sr)	34.7		µg/kg dry		31.6		110	30-150		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101575 - SW846 3545A										
Blank (7101575-BLK1)										
Prepared: 23-Oct-07 Analyzed: 24-Oct-07										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.4						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/kg wet	13.4						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.4						
Naphthalene	BRL		µg/kg wet	66.5						
2-Methylnaphthalene	BRL		µg/kg wet	66.5						
Acenaphthylene	BRL		µg/kg wet	66.5						
Acenaphthene	BRL		µg/kg wet	66.5						
Fluorene	BRL		µg/kg wet	66.5						
Phenanthrene	BRL		µg/kg wet	66.5						
Anthracene	BRL		µg/kg wet	66.5						
Fluoranthene	BRL		µg/kg wet	66.5						
Pyrene	BRL		µg/kg wet	66.5						
Benzo (a) anthracene	BRL		µg/kg wet	66.5						
Chrysene	BRL		µg/kg wet	66.5						
Benzo (b) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (k) fluoranthene	BRL		µg/kg wet	66.5						
Benzo (a) pyrene	BRL		µg/kg wet	66.5						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	66.5						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	66.5						
Benzo (g,h,i) perylene	BRL		µg/kg wet	66.5						
Surrogate: 1-Chlorooctadecane	2380		µg/kg wet		3330		71	40-140		
Surrogate: Ortho-Terphenyl	1900		µg/kg wet		3330		57	40-140		
Surrogate: 2-Fluorobiphenyl	1480		µg/kg wet		2670		56	40-140		
LCS (7101575-BS1)										
Prepared: 23-Oct-07 Analyzed: 24-Oct-07										
C9-C18 Aliphatic Hydrocarbons	30.8		mg/kg wet	13.4	40.0		77	40-140		
C19-C36 Aliphatic Hydrocarbons	40.2		mg/kg wet	13.4	53.3		75	40-140		
C11-C22 Aromatic Hydrocarbons	75.3		mg/kg wet	13.4	113		66	40-140		
Naphthalene	2730		µg/kg wet	66.5	6670		41	40-140		
2-Methylnaphthalene	3080		µg/kg wet	66.5	6670		46	40-140		
Acenaphthylene	3660		µg/kg wet	66.5	6670		55	40-140		
Acenaphthene	3680		µg/kg wet	66.5	6670		55	40-140		
Fluorene	4070		µg/kg wet	66.5	6670		61	40-140		
Phenanthrene	4130		µg/kg wet	66.5	6670		62	40-140		
Anthracene	4160		µg/kg wet	66.5	6670		62	40-140		
Fluoranthene	4760		µg/kg wet	66.5	6670		71	40-140		
Pyrene	4640		µg/kg wet	66.5	6670		70	40-140		
Benzo (a) anthracene	4810		µg/kg wet	66.5	6670		72	40-140		
Chrysene	5040		µg/kg wet	66.5	6670		76	40-140		
Benzo (b) fluoranthene	5400		µg/kg wet	66.5	6670		81	40-140		
Benzo (k) fluoranthene	5440		µg/kg wet	66.5	6670		82	40-140		
Benzo (a) pyrene	5580		µg/kg wet	66.5	6670		84	40-140		
Indeno (1,2,3-cd) pyrene	5810		µg/kg wet	66.5	6670		87	40-140		
Dibenzo (a,h) anthracene	5840		µg/kg wet	66.5	6670		88	40-140		
Benzo (g,h,i) perylene	5820		µg/kg wet	66.5	6670		87	40-140		
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101575 - SW846 3545A										
<u>LCS (7101575-BS1)</u>										
Prepared: 23-Oct-07 Analyzed: 24-Oct-07										
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	2280		µg/kg wet		3330		68	40-140		
Surrogate: Ortho-Terphenyl	2670		µg/kg wet		3330		80	40-140		
Surrogate: 2-Fluorobiphenyl	1780		µg/kg wet		2670		67	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (7101575-BS2)</u>										
Prepared & Analyzed: 23-Oct-07										
C9-C18 Aliphatic Hydrocarbons	23.7		mg/kg wet	13.4	40.0		59	40-140		
C19-C36 Aliphatic Hydrocarbons	41.5		mg/kg wet	13.4	53.3		78	40-140		
C11-C22 Aromatic Hydrocarbons	61.3		mg/kg wet	13.4	113		54	40-140		
Naphthalene	2790		µg/kg wet	66.5	6670		42	40-140		
2-Methylnaphthalene	3010		µg/kg wet	66.5	6670		45	40-140		
Acenaphthylene	2990		µg/kg wet	66.5	6670		45	40-140		
Acenaphthene	2940		µg/kg wet	66.5	6670		44	40-140		
Fluorene	3200		µg/kg wet	66.5	6670		48	40-140		
Phenanthrene	3250		µg/kg wet	66.5	6670		49	40-140		
Anthracene	3460		µg/kg wet	66.5	6670		52	40-140		
Fluoranthene	3780		µg/kg wet	66.5	6670		57	40-140		
Pyrene	3870		µg/kg wet	66.5	6670		58	40-140		
Benzo (a) anthracene	4050		µg/kg wet	66.5	6670		61	40-140		
Chrysene	4230		µg/kg wet	66.5	6670		64	40-140		
Benzo (b) fluoranthene	3610		µg/kg wet	66.5	6670		54	40-140		
Benzo (k) fluoranthene	4690		µg/kg wet	66.5	6670		70	40-140		
Benzo (a) pyrene	4390		µg/kg wet	66.5	6670		66	40-140		
Indeno (1,2,3-cd) pyrene	4630		µg/kg wet	66.5	6670		69	40-140		
Dibenzo (a,h) anthracene	4570		µg/kg wet	66.5	6670		69	40-140		
Benzo (g,h,i) perylene	4570		µg/kg wet	66.5	6670		68	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet		6670			0-200		
Surrogate: 1-Chlorooctadecane	2400		µg/kg wet		3330		72	40-140		
Surrogate: Ortho-Terphenyl	1940		µg/kg wet		3330		58	40-140		
Surrogate: 2-Bromonaphthalene	1110		µg/kg wet		2670		42	40-140		
Surrogate: 2-Fluorobiphenyl	1640		µg/kg wet		2670		62	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (7101575-BSD1)</u>										
Prepared: 23-Oct-07 Analyzed: 24-Oct-07										
C9-C18 Aliphatic Hydrocarbons	29.4		mg/kg wet	13.4	40.0		74	40-140	5	25
C19-C36 Aliphatic Hydrocarbons	41.6		mg/kg wet	13.4	53.3		78	40-140	3	25
C11-C22 Aromatic Hydrocarbons	79.3		mg/kg wet	13.4	113		70	40-140	5	25
Naphthalene	3180		µg/kg wet	66.5	6670		48	40-140	15	30
2-Methylnaphthalene	3400		µg/kg wet	66.5	6670		51	40-140	10	30
Acenaphthylene	3940		µg/kg wet	66.5	6670		59	40-140	7	30
Acenaphthene	4010		µg/kg wet	66.5	6670		60	40-140	9	30
Fluorene	4400		µg/kg wet	66.5	6670		66	40-140	8	30
Phenanthrene	4440		µg/kg wet	66.5	6670		67	40-140	7	30
Anthracene	4460		µg/kg wet	66.5	6670		67	40-140	7	30
Fluoranthene	5010		µg/kg wet	66.5	6670		75	40-140	5	30
Pyrene	4940		µg/kg wet	66.5	6670		74	40-140	6	30

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101575 - SW846 3545A										
<u>LCS Dup (7101575-BSD1)</u>										
Prepared: 23-Oct-07 Analyzed: 24-Oct-07										
Benzo (a) anthracene	4980		µg/kg wet	66.5	6670		75	40-140	3	30
Chrysene	5330		µg/kg wet	66.5	6670		80	40-140	6	30
Benzo (b) fluoranthene	5550		µg/kg wet	66.5	6670		83	40-140	3	30
Benzo (k) fluoranthene	5680		µg/kg wet	66.5	6670		85	40-140	4	30
Benzo (a) pyrene	5790		µg/kg wet	66.5	6670		87	40-140	4	30
Indeno (1,2,3-cd) pyrene	5990		µg/kg wet	66.5	6670		90	40-140	3	30
Dibenzo (a,h) anthracene	5880		µg/kg wet	66.5	6670		88	40-140	0.6	30
Benzo (g,h,i) perylene	5940		µg/kg wet	66.5	6670		89	40-140	2	30
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet		6670		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	2250		µg/kg wet		3330		68	40-140		
Surrogate: Ortho-Terphenyl	2860		µg/kg wet		3330		86	40-140		
Surrogate: 2-Fluorobiphenyl	1970		µg/kg wet		2670		74	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101680 - SW846 3050B										
<u>Blank (7101680-BLK1)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	4.25	QB1	mg/kg wet	1.49						
<u>Duplicate (7101680-DUP1)</u> Source: SA69729-02										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	224		mg/kg dry	1.51		228			2	20
<u>Matrix Spike (7101680-MS1)</u> Source: SA69729-03										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	4070	QM2	mg/kg dry	1.69	141	4340	-189	75-125		
<u>Matrix Spike Dup (7101680-MSD1)</u> Source: SA69729-03										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	4470		mg/kg dry	1.60	134	4340	96	75-125	9	35
<u>Post Spike (7101680-PS1)</u> Source: SA69729-03										
Prepared: 24-Oct-07 Analyzed: 29-Oct-07										
Lead	4110	QM2	mg/kg dry	1.76	147	4340	-157	80-120		
<u>Reference (7101680-SRM1)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	60.2		mg/kg wet	1.50	61.9		97	78.4-120.8		
<u>Reference (7101680-SRM2)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	60.8		mg/kg wet	1.50	61.1		99	78.4-120.8		
Batch 7101682 - SW846 3050B										
<u>Blank (7101682-BLK1)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	BRL		mg/kg wet	1.27						
<u>Duplicate (7101682-DUP1)</u> Source: SA69729-26										
Prepared: 24-Oct-07 Analyzed: 28-Oct-07										
Lead	10900		mg/kg dry	29.8		11700			7	20
<u>Matrix Spike (7101682-MS1)</u> Source: SA69729-30										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	4230	QM2	mg/kg dry	1.66	138	1440	2020	75-125		
<u>Matrix Spike Dup (7101682-MSD1)</u> Source: SA69729-30										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	3860	QM2	mg/kg dry	1.72	143	1440	1690	75-125	9	35
<u>Post Spike (7101682-PS1)</u> Source: SA69729-30										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	1460	QM2	mg/kg dry	1.63	136	1440	18	80-120		
<u>Reference (7101682-SRM1)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	59.7		mg/kg wet	1.50	61.0		98	78.4-120.8		
<u>Reference (7101682-SRM2)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	59.4		mg/kg wet	1.50	61.0		97	78.4-120.8		
Batch 7101683 - SW846 3050B										
<u>Blank (7101683-BLK1)</u>										

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 50 of 57

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101683 - SW846 3050B										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	BRL		mg/kg wet	14.3						
<u>Duplicate (7101683-DUP1)</u> Source: SA69613-01										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	7.54	J,QR9	mg/kg dry	15.8		10.1			29	20
<u>Matrix Spike (7101683-MS1)</u> Source: SA69613-02										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	136		mg/kg dry	16.6	148	5.91	88	75-125		
<u>Matrix Spike Dup (7101683-MSD1)</u> Source: SA69613-02										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	125		mg/kg dry	16.1	144	5.91	83	75-125	8	35
<u>Post Spike (7101683-PS1)</u> Source: SA69613-02										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	136		mg/kg dry	15.6	139	5.91	93	80-120		
<u>Reference (7101683-SRM1)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	54.6		mg/kg wet	14.0	60.9		90	78.4-120.8		
<u>Reference (7101683-SRM2)</u>										
Prepared: 24-Oct-07 Analyzed: 26-Oct-07										
Lead	56.3		mg/kg wet	14.0	61.2		92	78.4-120.8		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 7101714 - General Preparation										
<u>Duplicate (7101714-DUP1)</u> Source: SA69729-01										
Prepared & Analyzed: 24-Oct-07										
% Solids	93.2		%			92.1			1	20
Batch 7101716 - General Preparation										
<u>Duplicate (7101716-DUP1)</u> Source: SA69729-21										
Prepared & Analyzed: 24-Oct-07										
% Solids	90.3		%			92.1			2	20
Batch 7101717 - General Preparation										
<u>Duplicate (7101717-DUP1)</u> Source: SA69729-41										
Prepared & Analyzed: 24-Oct-07										
% Solids	88.5		%			86.6			2	20

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 51 of 57

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0710695				
Calibration Check (0710695-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.074862E+1	2.414865E+0	3.5	25.00
C19-C36 Aliphatic Hydrocarbons	2.758078E+1	1.425511E+0	-21.6	25.00
C11-C22 Aromatic Hydrocarbons	15197.95	14.09715	-9.9	25.00
Naphthalene	5.481618	4.900784	-10.6	20.00
2-Methylnaphthalene	3.48415	3.298496	-5.3	20.00
Acenaphthylene	5.364311	5.221618	-2.7	20.00
Acenaphthene	3.755986	3.569068	-5.0	20.00
Fluorene	4.066188	3.996828	-1.7	20.00
Phenanthrene	5.541089	5.392647	-2.7	20.00
Anthracene	6.05562	5.640866	-6.8	20.00
Fluoranthene	5.879472	5.825203	-0.9	20.00
Pyrene	6.096231	5.904202	-3.1	20.00
Benzo (a) anthracene	5.229344	5.376914	2.8	20.00
Chrysene	5.931609	5.749203	-3.1	20.00
Benzo (b) fluoranthene	5.023458	5.986278	19.2	20.00
Benzo (k) fluoranthene	6.504029	6.912051	6.3	20.00
Benzo (a) pyrene	5.27315	6.240177	18.3	20.00
Indeno (1,2,3-cd) pyrene	6.60397	7.90428	19.7	20.00
Dibenzo (a,h) anthracene	5.679206	6.733506	18.6	20.00
Benzo (g,h,i) perylene	5.803282	6.908525	19.0	20.00
5-alpha-Androstane	1	1	0.0	
5-alpha-Androstane	39930.36	1	-100	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 52 of 57

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch 0710760				
Calibration Check (0710760-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.074862E+1	1.522842E+0	9.7	25.00
C19-C36 Aliphatic Hydrocarbons	1.758078E+1	1.443151E+0	-20.5	25.00
C11-C22 Aromatic Hydrocarbons	15197.95	15.30397	-2.3	25.00
Naphthalene	5.481618	5.283582	-3.6	20.00
2-Methylnaphthalene	3.48415	3.358856	-3.6	20.00
Acenaphthylene	5.364311	5.395594	0.6	20.00
Acenaphthene	3.755986	3.682767	-1.9	20.00
Fluorene	4.066188	4.102435	0.9	20.00
Phenanthrene	5.541089	5.371731	-3.1	20.00
Anthracene	6.05562	5.783215	-4.5	20.00
Fluoranthene	5.879472	6.108723	3.9	20.00
Pyrene	6.096231	6.25764	2.6	20.00
Benzo (a) anthracene	5.229344	6.038034	15.5	20.00
Chrysene	5.931609	6.520471	9.9	20.00
Benzo (b) fluoranthene	5.023458	5.520138	9.9	20.00
Benzo (k) fluoranthene	6.504029	7.574926	16.5	20.00
Benzo (a) pyrene	5.27315	6.295022	19.4	20.00
Indeno (1,2,3-cd) pyrene	6.60397	6.472367	-2.0	20.00
Dibenzo (a,h) anthracene	5.679206	6.643811	17.0	20.00
Benzo (g,h,i) perylene	5.803282	6.938921	19.6	20.00
5-alpha-Androstane	1	1	0.0	
5-alpha-Androstane	39930.36	1	-100	

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
QB1	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QM5	The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	Soil				
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking				
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to <2 in lab Comment:				
Temperature	<input type="checkbox"/> Received on ice <input type="checkbox"/> Received at 4 \pm 2 °C <input checked="" type="checkbox"/> Other: 9.0 °C				

Were all QA/QC procedures followed as required by the EPH method? *Yes*

Were any significant modifications made to the EPH method as specified in Section 11.3? *No*

Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*


I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Authorized by:



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

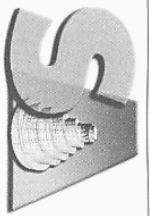
Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA			Project #: 458-01/001		
Project Location: Topeka - Roxbury, MA			MADEP RTN ¹ :		
This form provides certifications for the following data set: SA69729-01 through SA69729-55					
Sample matrices:		Soil			
MCP SW-846 Methods Used	<input type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input checked="" type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input type="checkbox"/> 8081A	<input type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input checked="" type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input checked="" type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte					
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
All negative responses are addressed in a case narrative on the cover page of this report.					
<p>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</p> <div style="text-align: right;">  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 11/2/2007 5:27:04PM </div>					

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 57 of 57



SPECTRUM ANALYTICAL, INC.

Founding
HARBOR TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 6

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 10-26-07
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Travis Engineers Inc

Attn: Dan Marsh

33 West Central St

Natick MA 01760

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.: _____

RON: _____

Project No.: 458-01/001

Site Name: Topeka

Location: Topeka

Sampler(s): D. Marsh / S. Attwood

Analyses:

QA Reporting Notes:

(check if needed)

☒ Provide MA DEP MCP CAM Report

☐ Provide CT DPH RCP Report

☒ QA/QC Reporting Level

☒ Standard ☐ No QC

☐ Other _____

State specific reporting standards:

5-1/5-2/5-3

Analyse all samples

see attached

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

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Extract only - No analysis

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Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

Extract only - No analysis

☐ Fax results when available to (_____) _____

☒ E-mail to dmars@travisengineers.com

EDD Format PDF

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 9°

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes:
09-729-01	51-0-2	10-17-07	1:00	G	So	9	1	1				PCBs *	
02	51-2-4	10-17-07	1:00	G	So	9	1	1				Total Pb	
03	51-4-6	10-17-07	1:00	G	So	9	1	1				EPH + targets	
04	51-6-8	10-17-07	1:00	G	So	9	1	1					
05	52-0-2	10-17-07	9:20	G	So	9	1	1					
06	52-2-4	10-17-07	9:20	G	So	9	1	1					
07	52-4-6	10-17-07	9:20	G	So	9	1	1					
08	52-6-8	10-17-07	9:20	G	So	9	1	1					
09	53-0-2	10-17-07	9:10	G	So	9	1	1					
10	53-2-4	10-17-07	9:10	G	So	9	1	1					

Relinquished by: _____

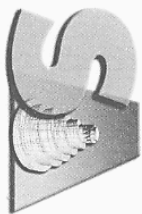
Received by: _____

Date: _____

Time: _____

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

* Note: Extract PCB samples by method 3540C, analyze by 8082



SPECTRUI ANALYTICAL, INC.
Featuring
HANBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 6

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 10-26-07
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Ervin Engineers Inc

Attn: Don Marsh

33 West Central St

Natick MA 01760

Project Mgr.: Don Marsh

Invoice To: Same

P.O. No.: _____

RON: _____

Project No.: 458-01/01

Site Name: Topelty

Location: Roxbury

Sampler(s): D. Marsh / S. Atwood

Analyses:

QA Reporting Notes:

(check if needed)

☒ Provide MA DEP MCP CAM Report

☐ Provide CT DPH RCP Report

☒ QA/QC Reporting Level

☒ Standard ☐ No QC

☐ Other _____

State specific reporting standards:
5-1/5-2/5-3

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Ice 10=_____
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=____ X2=____ X3=____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes:
69729-11	53-4-06	10-17-07	9:10	6	SO	9	1	1				PCBs* Total Pb EPH + Targets	Extract only - no analysis
12	53-6-8	10-17-07	9:10	6	SO	9	1	1					
13	54-0-2	10-17-07	8:40	6	SO	9	1	1					
14	54-2-4	10-17-07	8:40	6	SO	9	1	1					
15	54-4-6	10-17-07	8:40	6	SO	9	1	1					
16	54-6-8	10-17-07	8:40	6	SO	9	1	1					
17	55-0-2	10-17-07	10:10	6	SO	9	1	1					
18	55-2-4	10-17-07	10:10	6	SO	9	1	1					
19	55-4-6	10-17-07	10:10	6	SO	9	1	1					
20	55-6-8	10-17-07	10:10	6	SO	9	1	1					

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to (_____) _____

☒ E-mail to dmash@ervincneng.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 50

Don Marsh

[Signature]

10-18-07

10:55

[Signature]

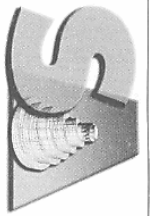
[Signature]

10/18/07

10:41

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

*Note: Extract PCB samples by Method 3540C, analyze by 8082



SPECTRUM ANALYTICAL, INC.
Featuring
HANBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 6

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 10-26-07
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers Inc

Attn: Dan Marsh

33 West Central St.

Natick MA 01760

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.: RQN:

Project No.: 458-011001

Site Name: Teleka

Location: Rothbury

Sampler(s): D. Marsh / S. Atwood

Containers:

Analyses:

QA Reporting Notes:

(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Ice 10=Ice
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes:
69729-21	S6-O-2	10-17-07	9:55	G	So	Q	1	1			PCBs*	
22	S6-2-4	10-17-07	9:55	G	So	Q	1	1			Total Pb	
23	S6-4-6	10-17-07	9:55	G	So	Q	1	1			EPH + Targets	
24	S6-6-8	10-17-07	9:55	G	So	Q	1	1				
25	S7-0-2	10-17-07	9:50	G	So	Q	1	1				
26	S7-2-4	10-17-07	9:50	G	So	Q	1	1				
27	S7-4-6	10-17-07	9:50	G	So	Q	1	1				
28	S7-6-8	10-17-07	9:50	G	So	Q	1	1				
29	S8-0-2	10-17-07	9:35	G	So	Q	1	1				
30	S8-2-4	10-17-07	9:35	G	So	Q	1	1				

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to ()

☒ E-mail to dmarch@erwinengineers.com

EDD Format pdf

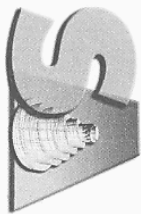
Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 90

[Signature]

[Signature]

10/18/07 11:55

16:04



SPECTRUM ANALYTICAL, INC.
Featuring
HAMBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 6

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 10-26-07
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Igwin Engineers Inc

Invoice To: Same

Project No.: 458-01/001

Site Name: Topeka

State: MA

Location: Roxbury

Sampler(s): D. Marsh/S. Atwood

Project Mgr.: Dan Marsh

P.O. No.: RON:

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=ICE 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
69729-31	58-4-6	10-17-07	9:35	6	SO	9	1				PCBs * Total Pb EPH + Targets	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other
32	58-6-8	10-17-07	9:35	6	SO	9	1					State specific reporting standards: <u>5-1/5-2/5-3</u>
33	59-0-2	10-17-07	10:45	6	SO	9	1					Extract only - no analysis
34	59-2-4	10-17-07	10:45	6	SO	9	1					
35	59-4-6	10-17-07	10:45	6	SO	9	1					Extract only - no analysis
36	59-6-8	10-17-07	10:45	6	SO	9	1					
37	510-0-2	10-17-07	10:30	6	SO	9	1					
38	510-2-4	10-17-07	10:30	6	SO	9	1					
39	510-4-6	10-17-07	10:30	6	SO	9	1					Extract only - no analysis
40	510-6-8	10-17-07	10:30	6	SO	9	1					

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to ()
☒ E-mail to dmarch@igwinengineers.com
EDD Format PDF
Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 90

[Signature]

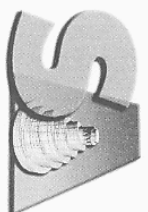
[Signature]

10-18-07

10:55

* Note: Extract PCB samples by Method 3540C, analyze by 8082

11 Alington Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com



SPECTRUI ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 6

SA69729 En

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 10-26-07
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Kevin Engineers Inc

Invoice To: Sam R

Project No.: 458-01/001

Attn: Ken Mays

Site Name: Toperk

33 West Central St.

Location: Roxbury

Natick MA 01760

Sampler(s): D. Marsh / S. Atwood

Project Mgr.: Ken Mays

P.O. No.: _____

State: MA

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=ICE 10=_____

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
69729-41	511-0-2	10-17-07	10:20	6	SO	4	1	1			PCBs * Total Pb EPH+ Targets	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____
42	511-2-4	10-17-07	10:20	6	SO	4	1	1				State specific reporting standards: <u>5-1/5-2/5-3</u>
43	511-4-6	10-17-07	10:20	6	SO	4	1	1				Extract only - no analysis
44	511-6-8	10-17-07	10:20	6	SO	4	1	1				Extract only - no analysis
45	512-0-2	10-17-07	11:00	6	SO	4	1	1				
46	512-2-4	10-17-07	11:00	6	SO	4	1	1				
47	512-4-6	10-17-07	11:00	6	SO	4	1	1				Extract only - no analysis
48	512-6-8	10-17-07	11:00	6	SO	4	1	1				
49	51314515-0-2	10-17-07	12:00	6	SO	4	1	1				
50	51314515-2-4	10-17-07	12:00	6	SO	4	1	1				

Relinquished by:

Received by:

Date:

Time:

☒ Fax results when available to (_____) _____
☐ E-mail to dmays@irwinengineers.com

Ken Mays

Ken Mays

10-18-07

10:50

EDD Format: pdf

Ken Mays

Ken Mays

10-18-07

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 90

*Note: Extract PCB samples by Method 3546 C, analyze by 8082

Page 6 of 6

otherwise instructed.

Project No.: 458-01001
Site Name: Tepetl
Location: Pexbury State: MA
Sampler(s): D. Marsh / S. Attwood

QA Reporting Notes:
(check if needed)

☒ Provide MA DEP MCP CAM Report

~~Extract only no analysis~~

Date:	Time:
10-18-07	1:50
10-18-07	16:40

Report Date:
30-Nov-09 11:14



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Irwin Engineers, Inc.
33 West Central Street
Natick, MA 01760
Attn: Dan Marsh

Project: Topeka - Roxbury, MA
Project #: 458-02B/001

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB04040-01	S201-0-2	Soil	12-Nov-09 11:25	13-Nov-09 15:30
SB04040-02	S201-2-4	Soil	12-Nov-09 11:25	13-Nov-09 15:30
SB04040-03	S201-4-6	Soil	12-Nov-09 11:25	13-Nov-09 15:30
SB04040-04	S202-0-2	Soil	12-Nov-09 09:00	13-Nov-09 15:30
SB04040-05	S202-2-4	Soil	12-Nov-09 09:00	13-Nov-09 15:30
SB04040-06	S202-4-6	Soil	12-Nov-09 09:00	13-Nov-09 15:30
SB04040-07	S202-6-8	Soil	12-Nov-09 09:00	13-Nov-09 15:30
SB04040-08	S203-0-2	Soil	12-Nov-09 09:10	13-Nov-09 15:30
SB04040-09	S203-2-4	Soil	12-Nov-09 09:10	13-Nov-09 15:30
SB04040-10	S203-4-6	Soil	12-Nov-09 09:10	13-Nov-09 15:30
SB04040-11	S204-0-2	Soil	12-Nov-09 09:20	13-Nov-09 15:30
SB04040-12	S204-2-4	Soil	12-Nov-09 09:20	13-Nov-09 15:30
SB04040-13	S204-4-6	Soil	12-Nov-09 09:20	13-Nov-09 15:30
SB04040-14	S204-6-8	Soil	12-Nov-09 09:20	13-Nov-09 15:30
SB04040-15	S205-0-2	Soil	12-Nov-09 09:30	13-Nov-09 15:30
SB04040-16	S205-2-4	Soil	12-Nov-09 09:30	13-Nov-09 15:30
SB04040-17	S205-4-6	Soil	12-Nov-09 09:30	13-Nov-09 15:30
SB04040-18	S206-0-2	Soil	12-Nov-09 09:40	13-Nov-09 15:30
SB04040-19	S206-2-4	Soil	12-Nov-09 09:40	13-Nov-09 15:30
SB04040-20	S206-4-6	Soil	12-Nov-09 09:40	13-Nov-09 15:30
SB04040-21	S207-0-2	Soil	12-Nov-09 11:30	13-Nov-09 15:30
SB04040-22	S207-2-4	Soil	12-Nov-09 11:30	13-Nov-09 15:30
SB04040-23	S207-4-6	Soil	12-Nov-09 11:30	13-Nov-09 15:30
SB04040-24	S208-0-2	Soil	12-Nov-09 10:20	13-Nov-09 15:30
SB04040-25	S208-2-4	Soil	12-Nov-09 10:20	13-Nov-09 15:30
SB04040-26	S208-4-6	Soil	12-Nov-09 10:20	13-Nov-09 15:30
SB04040-27	S208-6-8	Soil	12-Nov-09 10:20	13-Nov-09 15:30
SB04040-28	S209-0-2	Soil	12-Nov-09 10:10	13-Nov-09 15:30
SB04040-29	S209-2-4	Soil	12-Nov-09 10:10	13-Nov-09 15:30
SB04040-30	S209-4-6	Soil	12-Nov-09 10:10	13-Nov-09 15:30
SB04040-31	S210-0-2	Soil	12-Nov-09 10:00	13-Nov-09 15:30
SB04040-32	S210-2-4	Soil	12-Nov-09 10:00	13-Nov-09 15:30
SB04040-33	S210-4-6	Soil	12-Nov-09 10:00	13-Nov-09 15:30
SB04040-34	S210-6-8	Soil	12-Nov-09 10:00	13-Nov-09 15:30
SB04040-35	S211-0-2	Soil	12-Nov-09 09:50	13-Nov-09 15:30
SB04040-36	S211-2-4	Soil	12-Nov-09 09:50	13-Nov-09 15:30
SB04040-37	S211-4-6	Soil	12-Nov-09 09:50	13-Nov-09 15:30
SB04040-38	S212-0-2	Soil	12-Nov-09 09:45	13-Nov-09 15:30
SB04040-39	S212-2-4	Soil	12-Nov-09 09:45	13-Nov-09 15:30
SB04040-40	S212-4-6	Soil	12-Nov-09 09:45	13-Nov-09 15:30
SB04040-41	S213-0-2	Soil	12-Nov-09 11:35	13-Nov-09 15:30

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB04040-42	S213-2-4	Soil	12-Nov-09 11:35	13-Nov-09 15:30
SB04040-43	S213-4-6	Soil	12-Nov-09 11:35	13-Nov-09 15:30
SB04040-44	S214-0-2	Soil	12-Nov-09 10:30	13-Nov-09 15:30
SB04040-45	S214-2-4	Soil	12-Nov-09 10:30	13-Nov-09 15:30
SB04040-46	S214-4-6	Soil	12-Nov-09 10:30	13-Nov-09 15:30
SB04040-47	S214-6-8	Soil	12-Nov-09 10:30	13-Nov-09 15:30
SB04040-48	S215-0-2	Soil	12-Nov-09 10:45	13-Nov-09 15:30
SB04040-49	S215-2-4	Soil	12-Nov-09 10:45	13-Nov-09 15:30
SB04040-50	S215-4-6	Soil	12-Nov-09 10:45	13-Nov-09 15:30
SB04040-51	S216-0-2	Soil	12-Nov-09 10:55	13-Nov-09 15:30
SB04040-52	S216-2-4	Soil	12-Nov-09 10:55	13-Nov-09 15:30
SB04040-53	S216-4-6	Soil	12-Nov-09 10:55	13-Nov-09 15:30
SB04040-54	S216-6-8	Soil	12-Nov-09 10:55	13-Nov-09 15:30
SB04040-55	S217-0-2	Soil	12-Nov-09 11:10	13-Nov-09 15:30
SB04040-56	S217-2-4	Soil	12-Nov-09 11:10	13-Nov-09 15:30
SB04040-57	S217-4-6	Soil	12-Nov-09 11:10	13-Nov-09 15:30
SB04040-58	S218-0-2	Soil	12-Nov-09 11:15	13-Nov-09 15:30
SB04040-59	S218-2-4	Soil	12-Nov-09 11:15	13-Nov-09 15:30
SB04040-60	S218-4-6	Soil	12-Nov-09 11:15	13-Nov-09 15:30
SB04040-61	S230-0-2	Soil	12-Nov-09 12:35	13-Nov-09 15:30
SB04040-62	S230-2-4	Soil	12-Nov-09 12:35	13-Nov-09 15:30
SB04040-63	S230-4-6	Soil	12-Nov-09 12:35	13-Nov-09 15:30
SB04040-64	S231-0-2	Soil	12-Nov-09 12:45	13-Nov-09 15:30
SB04040-65	S231-2-4	Soil	12-Nov-09 12:45	13-Nov-09 15:30
SB04040-66	S231-4-6	Soil	12-Nov-09 12:45	13-Nov-09 15:30
SB04040-67	S232-0-2	Soil	12-Nov-09 12:55	13-Nov-09 15:30
SB04040-68	S232-2-4	Soil	12-Nov-09 12:55	13-Nov-09 15:30
SB04040-69	S232-4-6	Soil	12-Nov-09 12:55	13-Nov-09 15:30
SB04040-70	S233-0-2	Soil	12-Nov-09 13:00	13-Nov-09 15:30
SB04040-71	S233-2-4	Soil	12-Nov-09 13:00	13-Nov-09 15:30
SB04040-72	S233-4-6	Soil	12-Nov-09 13:00	13-Nov-09 15:30
SB04040-73	S233-6-8	Soil	12-Nov-09 13:00	13-Nov-09 15:30
SB04040-74	S234-0-2	Soil	12-Nov-09 12:00	13-Nov-09 15:30
SB04040-75	S234-2-4	Soil	12-Nov-09 12:00	13-Nov-09 15:30
SB04040-76	S234-4-6	Soil	12-Nov-09 12:00	13-Nov-09 15:30
SB04040-77	S235-0-2	Soil	12-Nov-09 12:10	13-Nov-09 15:30
SB04040-78	S235-2-4	Soil	12-Nov-09 12:10	13-Nov-09 15:30
SB04040-79	S235-4-6	Soil	12-Nov-09 12:10	13-Nov-09 15:30
SB04040-80	S236-0-2	Soil	12-Nov-09 12:15	13-Nov-09 15:30
SB04040-81	S236-2-4	Soil	12-Nov-09 12:15	13-Nov-09 15:30
SB04040-82	S236-4-6	Soil	12-Nov-09 12:15	13-Nov-09 15:30
SB04040-83	S237-0-2	Soil	12-Nov-09 12:30	13-Nov-09 15:30
SB04040-84	S237-2-4	Soil	12-Nov-09 12:30	13-Nov-09 15:30
SB04040-85	S237-4-6	Soil	12-Nov-09 12:30	13-Nov-09 15:30
SB04040-86	S255-4-6	Soil	12-Nov-09 11:00	13-Nov-09 15:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.
Please note that this report contains 105 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 4.5 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 3.5 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010B

Spikes:

9111360-MS1 *Source: SB04040-11*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111360-MSD1 *Source: SB04040-11*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Lead

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111360-PS1 *Source: SB04040-11*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

Duplicates:

9111360-DUP1 *Source: SB04040-15*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Lead

SW846 6010B

Samples:

SB04040-12 *S204-2-4*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04040-28 *S209-0-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04040-36 *S211-2-4*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04040-48 *S215-0-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04040-55 *S217-0-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04040-67 *S232-0-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04040-86 *S255-4-6*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SW846 8082

Spikes:

9111208-MS1 *Source: SB04040-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1260
Aroclor-1260 [2C]

9111208-MSD1 *Source: SB04040-01*

RPD out of acceptance range.

Aroclor-1260
Aroclor-1260 [2C]

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1260
Aroclor-1260 [2C]

9111209-MS1 *Source: SB04040-48*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1260
Aroclor-1260 [2C]

9111209-MSD1 *Source: SB04040-48*

RPD out of acceptance range.

Aroclor-1260
Aroclor-1260 [2C]

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1260
Aroclor-1260 [2C]

9111840-MS2 *Source: SB04040-65*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260
Aroclor-1260 [2C]

9111840-MSD1 *Source: SB04040-41*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260
Aroclor-1260 [2C]

9111840-MSD2 *Source: SB04040-65*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1016
Aroclor-1260 [2C]

Samples:

SB04040-18 S206-0-2

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

Decachlorobiphenyl (Sr)

SB04040-18RE1 S206-0-2

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB04040-19RE1 S206-2-4

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB04040-38 S212-0-2

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB04040-38RE1 S212-0-2

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB04040-71 S233-2-4

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Sample Identification**S201-0-2**

SB04040-01

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:25

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.0	1	SW846 8082	16-Nov-09	18-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	2,270		µg/kg dry	21.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.0	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	79		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	111		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	87		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	87		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	5,420		mg/kg dry	1.46	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	90.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S201-2-4**

SB04040-02

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:25

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.5	1	SW846 8082	16-Nov-09	18-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.5	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.5	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.5	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.5	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.5	1	"	"	"	"	
11096-82-5	Aroclor-1260	2,750		µg/kg dry	21.5	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.5	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.5	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	81		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	92		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	86		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	76		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	5,290		mg/kg dry	1.65	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	90.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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BRL = Below Reporting Limit

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Sample Identification**S201-4-6**

SB04040-03

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:25

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.3	1	SW846 8082	16-Nov-09	18-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.3	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.3	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.3	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.3	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	24.3	1	"	"	"	"	
11096-82-5	Aroclor-1260	46.4		µg/kg dry	24.3	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.3	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.3	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	88		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	64		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	290		mg/kg dry	1.65	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	77.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S202-0-2**

SB04040-04

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.1	1	SW846 8082	16-Nov-09	18-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	412		µg/kg dry	22.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	307		µg/kg dry	22.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	81		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	70		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2,550		mg/kg dry	1.65	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	88.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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Sample Identification**S202-2-4**

SB04040-05

Client Project #

458-02B/001

Matrix

Soil

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12-Nov-09 09:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.0	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	610		µg/kg dry	23.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	258		µg/kg dry	23.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	73		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,630		mg/kg dry	1.57	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	84.6		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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Sample Identification**S202-4-6**

SB04040-06

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	78.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

Sample Identification**S202-6-8**

SB04040-07

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	79.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

Sample Identification**S203-0-2**

SB04040-08

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.5	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.5	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.5	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.5	1	"	"	"	"	
12672-29-6	Aroclor-1248	3,860		µg/kg dry	21.5	1	"	"	"	"	
11097-69-1	Aroclor-1254	3,390		µg/kg dry	21.5	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,730		µg/kg dry	21.5	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.5	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.5	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	78		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	72		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	50		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	68		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	4,200		mg/kg dry	1.43	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	90.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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Sample Identification**S203-2-4**

SB04040-09

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:10

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.3	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.3	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.3	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.3	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.3	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.3	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	22.3	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.3	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.3	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	77		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	103		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	87		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	86		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,600		mg/kg dry	1.49	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	84.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S203-4-6**

SB04040-10

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:10

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13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	78.4		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

Sample Identification**S204-0-2**

SB04040-11

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:20

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.3	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.3	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.3	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.3	1	"	"	"	"	
12672-29-6	Aroclor-1248	8,520	E	µg/kg dry	20.3	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.3	1	"	"	"	"	
11096-82-5	Aroclor-1260	818		µg/kg dry	20.3	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.3	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.3	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	72		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	74		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	86		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	94		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	203	10	SW846 8082	16-Nov-09	20-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	203	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	203	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	203	10	"	"	"	"	
12672-29-6	Aroclor-1248	9,920		µg/kg dry	203	10	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	203	10	"	"	"	"	
11096-82-5	Aroclor-1260	1,120		µg/kg dry	203	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	203	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	203	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	130		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,520		mg/kg dry	1.50	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	92.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S204-2-4**

SB04040-12

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:20

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.8	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.8	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.8	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.8	1	"	"	"	"	
12672-29-6	Aroclor-1248	20,400	E	µg/kg dry	20.8	1	"	"	"	"	
11097-69-1	Aroclor-1254	11,100	E	µg/kg dry	20.8	1	"	"	"	"	
11096-82-5	Aroclor-1260	16,900	E	µg/kg dry	20.8	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.8	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.8	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	125		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	102		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	106		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	208	10	SW846 8082	16-Nov-09	20-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	208	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	208	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	208	10	"	"	"	"	
12672-29-6	Aroclor-1248	18,200		µg/kg dry	208	10	"	"	"	"	
11097-69-1	Aroclor-1254	10,500		µg/kg dry	208	10	"	"	"	"	
11096-82-5	Aroclor-1260	15,600		µg/kg dry	208	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	208	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	208	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	140		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	130		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	13,800	GS1	mg/kg dry	14.2	10	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	89.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S204-4-6**

SB04040-13

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:20

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.7	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.7	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.7	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.7	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.7	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.7	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	22.7	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.7	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.7	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	42		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	44		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	66		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	85.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S204-6-8**

SB04040-14

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:20

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	77.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

Sample Identification**S205-0-2**

SB04040-15

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.4	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	3,580		µg/kg dry	20.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,140		µg/kg dry	20.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	127		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	117		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	147		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2,010		mg/kg dry	1.59	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	91.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S205-2-4**

SB04040-16

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.0	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	2,520		µg/kg dry	21.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,150		µg/kg dry	21.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	103		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	87		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,360		mg/kg dry	1.46	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	90.0		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S205-4-6**

SB04040-17

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	82.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

Sample Identification**S206-0-2**

SB04040-18

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:40

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.5	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.5	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.5	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.5	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.5	1	"	"	"	"	
11097-69-1	Aroclor-1254	18,700	E	µg/kg dry	22.5	1	"	"	"	"	
11096-82-5	Aroclor-1260	3,860		µg/kg dry	22.5	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.5	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.5	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	81		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	69		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	175	S04	30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	140		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	225	10	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	225	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	225	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	225	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	225	10	"	"	"	"	
11097-69-1	Aroclor-1254	23,000		µg/kg dry	225	10	"	"	"	"	
11096-82-5	Aroclor-1260	4,200		µg/kg dry	225	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	225	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	225	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	170	S02	30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	155	S02	30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	7,710		mg/kg dry	1.73	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	85.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111327	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S206-2-4**

SB04040-19

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:40

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.1	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	7,390	E	µg/kg dry	23.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	7,780	E	µg/kg dry	23.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.1	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	86			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	112			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	148			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	119			30-150 %		"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	231	10	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	231	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	231	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	231	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	231	10	"	"	"	"	
11097-69-1	Aroclor-1254	7,440		µg/kg dry	231	10	"	"	"	"	
11096-82-5	Aroclor-1260	7,880		µg/kg dry	231	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	231	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	231	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	120			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	210	S02		30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	190	S02		30-150 %		"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	6,560		mg/kg dry	1.55	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	83.6		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S206-4-6**

SB04040-20

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:40

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.2	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	24.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	99.1		µg/kg dry	24.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.2	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	61		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	49		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	67		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	80.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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BRL = Below Reporting Limit

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Sample Identification**S207-0-2**

SB04040-21

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.4	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	268		µg/kg dry	21.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	81		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	121		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	40		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	77		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,260		mg/kg dry	1.48	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	88.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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Sample Identification**S207-2-4**

SB04040-22

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.2	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	534		µg/kg dry	22.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.2	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	82		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	112		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	51		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,150		mg/kg dry	1.65	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	88.4		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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Sample Identification**S207-4-6**

SB04040-23

Client Project #

458-02B/001

Matrix

Soil

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12-Nov-09 11:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	32.2	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	32.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	32.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	32.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	32.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	32.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	109		µg/kg dry	32.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	32.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	32.2	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	82		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	127		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	64		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	73		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2,340		mg/kg dry	2.27	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	59.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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Sample Identification**S208-0-2**

SB04040-24

Client Project #

458-02B/001

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	80.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S208-2-4**

SB04040-25

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:20

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.5	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.5	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.5	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.5	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.5	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.5	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.5	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.5	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.5	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	54		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	63		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	54		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	58		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	90.0		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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Sample Identification**S208-4-6**

SB04040-26

Client Project #

458-02B/001

Matrix

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Collection Date/Time

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	72.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S208-6-8**

SB04040-27

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:20

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	73.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S209-0-2**

SB04040-28

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.8	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.8	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.8	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.8	1	"	"	"	"	
12672-29-6	Aroclor-1248	5,770	E	µg/kg dry	20.8	1	"	"	"	"	
11097-69-1	Aroclor-1254	4,750		µg/kg dry	20.8	1	"	"	"	"	
11096-82-5	Aroclor-1260	6,490	E	µg/kg dry	20.8	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.8	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.8	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	73		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	113		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	208	10	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	208	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	208	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	208	10	"	"	"	"	
12672-29-6	Aroclor-1248	7,050		µg/kg dry	208	10	"	"	"	"	
11097-69-1	Aroclor-1254	4,280		µg/kg dry	208	10	"	"	"	"	
11096-82-5	Aroclor-1260	5,760		µg/kg dry	208	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	208	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	208	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	27,100	GS1	mg/kg dry	29.0	20	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	90.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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Sample Identification**S209-2-4**

SB04040-29

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.8	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.8	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.8	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.8	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.8	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.8	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.8	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.8	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.8	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	76		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	77		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	67		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	58		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	718		mg/kg dry	1.38	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	91.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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Sample Identification**S209-4-6**

SB04040-30

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	82.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S210-0-2**

SB04040-31

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	89.4		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S210-2-4**

SB04040-32

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.9	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.9	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.9	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.9	1	"	"	"	"	
12672-29-6	Aroclor-1248	886		µg/kg dry	21.9	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.9	1	"	"	"	"	
11096-82-5	Aroclor-1260	5,970	E	µg/kg dry	21.9	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.9	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.9	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	46		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	79		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	219	10	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	219	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	219	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	219	10	"	"	"	"	
12672-29-6	Aroclor-1248	1,220		µg/kg dry	219	10	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	219	10	"	"	"	"	
11096-82-5	Aroclor-1260	7,450		µg/kg dry	219	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	219	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	219	10	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	90.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S210-4-6**

SB04040-33

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	72.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S210-6-8**

SB04040-34

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	76.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S211-0-2**

SB04040-35

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:50

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.4	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	79,700	E	µg/kg dry	21.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	36,500	E	µg/kg dry	21.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	4,400		µg/kg dry	21.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.4	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	79		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	70		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	1070	50	SW846 8082	16-Nov-09	20-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	1070	50	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	1070	50	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	1070	50	"	"	"	"	
12672-29-6	Aroclor-1248	63,100		µg/kg dry	1070	50	"	"	"	"	
11097-69-1	Aroclor-1254	22,900		µg/kg dry	1070	50	"	"	"	"	
11096-82-5	Aroclor-1260	6,420		µg/kg dry	1070	50	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	1070	50	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	1070	50	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	125		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	7,700		mg/kg dry	1.59	1	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	90.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S211-2-4**

SB04040-36

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:50

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.0	1	SW846 8082	16-Nov-09	19-Nov-09	9111208	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	23.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	215		µg/kg dry	23.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	77		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	6,670	GS1	mg/kg dry	33.4	20	SW846 6010B	19-Nov-09	20-Nov-09	9111360	
General Chemistry Parameters											
	% Solids	83.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S211-4-6**

SB04040-37

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:50

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	80.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

Sample Identification**S212-0-2**

SB04040-38

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:45

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
Extraction		Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.7	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.7	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.7	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.7	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.7	1	"	"	"	"	
11097-69-1	Aroclor-1254	8,340	E	µg/kg dry	23.7	1	"	"	"	"	
11096-82-5	Aroclor-1260	8,290	E	µg/kg dry	23.7	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.7	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.7	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	36			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	131			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	376	S02		30-150 %		"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	237	10	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	237	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	237	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	237	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	237	10	"	"	"	"	
11097-69-1	Aroclor-1254	13,100		µg/kg dry	237	10	"	"	"	"	
11096-82-5	Aroclor-1260	11,300		µg/kg dry	237	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	237	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	237	10	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	370	S02		30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	315	S02		30-150 %		"	"	"	"	
General Chemistry Parameters											
% Solids		83.0		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111328	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S212-2-4**

SB04040-39

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:45

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.4	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	810		µg/kg dry	22.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,790		µg/kg dry	22.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	58		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	78		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	78		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	84.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S212-4-6**

SB04040-40

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 09:45

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111210	
General Chemistry Parameters											
	% Solids	78.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S213-0-2**

SB04040-41

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:35

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.2	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	360		µg/kg dry	20.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	570		µg/kg dry	20.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.2	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	64			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	103			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	87			30-150 %		"	"	"	"	
General Chemistry Parameters											
	% Solids	91.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S213-2-4**

SB04040-42

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:35

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.2	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	508		µg/kg dry	20.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.2	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	53		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	64		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	56		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	62		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	90.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S213-4-6**

SB04040-43

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:35

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	89.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S214-0-2**

SB04040-44

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	90.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S214-2-4**

SB04040-45

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.4	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	966		µg/kg dry	22.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,430		µg/kg dry	22.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	53		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	59		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	54		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	64		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	87.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S214-4-6**

SB04040-46

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	86.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S214-6-8**

SB04040-47

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	69.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S215-0-2**

SB04040-48

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:45

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	211	10	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	211	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	211	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	211	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	211	10	"	"	"	"	
11097-69-1	Aroclor-1254	3,310		µg/kg dry	211	10	"	"	"	"	
11096-82-5	Aroclor-1260	7,320		µg/kg dry	211	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	211	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	211	10	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	43,600	GS1	mg/kg dry	28.9	20	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	91.6		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

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Sample Identification**S215-2-4**

SB04040-49

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:45

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.0	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	50.8		µg/kg dry	24.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	82.8		µg/kg dry	24.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	99		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	76		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,980		mg/kg dry	1.60	1	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	79.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

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Sample Identification**S215-4-6**

SB04040-50

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

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Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	83.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S216-0-2**

SB04040-51

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:55

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	92.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S216-2-4**

SB04040-52

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:55

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.3	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.3	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.3	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.3	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.3	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.3	1	"	"	"	"	
11096-82-5	Aroclor-1260	4,130		µg/kg dry	21.3	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.3	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.3	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	54		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	42		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	82		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	91.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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BRL = Below Reporting Limit

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Sample Identification**S216-4-6**

SB04040-53

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:55

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	76.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S216-6-8**

SB04040-54

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 10:55

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	81.4		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S217-0-2**

SB04040-55

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.1	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	4,870	E	µg/kg dry	21.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	7,050	E	µg/kg dry	21.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	6,310	E	µg/kg dry	21.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.1	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	73			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	81			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	143			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	147			30-150 %		"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	211	10	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	211	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	211	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	211	10	"	"	"	"	
12672-29-6	Aroclor-1248	4,380		µg/kg dry	211	10	"	"	"	"	
11097-69-1	Aroclor-1254	7,150		µg/kg dry	211	10	"	"	"	"	
11096-82-5	Aroclor-1260	6,290		µg/kg dry	211	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	211	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	211	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	145			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %		"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	10,700	GS1	mg/kg dry	28.3	20	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	88.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S217-2-4**

SB04040-56

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.9	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.9	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.9	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.9	1	"	"	"	"	
12672-29-6	Aroclor-1248	768		µg/kg dry	22.9	1	"	"	"	"	
11097-69-1	Aroclor-1254	595		µg/kg dry	22.9	1	"	"	"	"	
11096-82-5	Aroclor-1260	438		µg/kg dry	22.9	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.9	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.9	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	76		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	68		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	81		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	7,330		mg/kg dry	1.67	1	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	84.7		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S217-4-6**

SB04040-57

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:10

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	44.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

Sample Identification**S218-0-2**

SB04040-58

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:15

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.8	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.8	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.8	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.8	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.8	1	"	"	"	"	
11097-69-1	Aroclor-1254	3,610		µg/kg dry	24.8	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,380		µg/kg dry	24.8	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.8	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.8	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	56		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	61		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	64		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	78.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111329	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S218-2-4**

SB04040-59

Client Project #

458-02B/001

Matrix

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Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.3	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.3	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.3	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.3	1	"	"	"	"	
12672-29-6	Aroclor-1248	237		µg/kg dry	23.3	1	"	"	"	"	
11097-69-1	Aroclor-1254	743		µg/kg dry	23.3	1	"	"	"	"	
11096-82-5	Aroclor-1260	413		µg/kg dry	23.3	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.3	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.3	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	64		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	63		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	122		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	117		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	82.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

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Sample Identification**S218-4-6**

SB04040-60

Client Project #

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Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	74.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S230-0-2**

SB04040-61

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:35

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.0	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	2,280		µg/kg dry	21.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	671		µg/kg dry	21.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	47		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	78		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	91		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	88.0		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S230-2-4**

SB04040-62

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:35

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13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.6	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.6	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.6	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.6	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.6	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	23.6	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	23.6	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.6	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	54		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	61		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	67		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	81.6		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

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Sample Identification**S230-4-6**

SB04040-63

Client Project #

458-02B/001

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
General Chemistry Parameters											
	% Solids	69.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S231-0-2**

SB04040-64

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:45

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111211	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.0	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	2,610		µg/kg dry	23.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	5,500		µg/kg dry	23.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	2,240		µg/kg dry	23.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	82		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	84.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

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Sample Identification**S231-2-4**

SB04040-65

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Matrix

Soil

Collection Date/Time

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatiles Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
Semivolatiles Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	25.4	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	25.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	25.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	25.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	25.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	1,510		µg/kg dry	25.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	715		µg/kg dry	25.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	25.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	25.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	68		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	50		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	91		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	74.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

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Sample Identification**S231-4-6**

SB04040-66

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:45

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13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	26.2	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	26.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	26.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	26.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	26.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	26.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	26.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	26.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	26.2	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	91		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	49		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	82		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	75.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S232-0-2**

SB04040-67

Client Project #

458-02B/001

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.5	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.5	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.5	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.5	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.5	1	"	"	"	"	
11097-69-1	Aroclor-1254	25,100	E	µg/kg dry	22.5	1	"	"	"	"	
11096-82-5	Aroclor-1260	3,050		µg/kg dry	22.5	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.5	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.5	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	76		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	126		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	123		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	145		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	225	10	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	225	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	225	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	225	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	225	10	"	"	"	"	
11097-69-1	Aroclor-1254	23,600		µg/kg dry	225	10	"	"	"	"	
11096-82-5	Aroclor-1260	3,090		µg/kg dry	225	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	225	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	225	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	145		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	145		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	17,000	GS1	mg/kg dry	34.3	20	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	85.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S232-2-4**

SB04040-68

Client Project #

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Matrix

Soil

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12-Nov-09 12:55

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.3	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.3	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.3	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.3	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.3	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	24.3	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	24.3	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.3	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.3	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	66		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	74		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	76.2		mg/kg dry	1.89	1	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	79.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S232-4-6**

SB04040-69

Client Project #

458-02B/001

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	68.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S233-0-2**

SB04040-70

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 13:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.1	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	5,230		µg/kg dry	21.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	13,000	E	µg/kg dry	21.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.1	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	71		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	97		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	81		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	117		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	211	10	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	211	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	211	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	211	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	211	10	"	"	"	"	
11097-69-1	Aroclor-1254	6,610		µg/kg dry	211	10	"	"	"	"	
11096-82-5	Aroclor-1260	13,600		µg/kg dry	211	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	211	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	211	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,990		mg/kg dry	1.56	1	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	90.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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* Reportable Detection Limit

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Sample Identification**S233-2-4**

SB04040-71

Client Project #

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Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	227	10	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	227	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	227	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	227	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	227	10	"	"	"	"	
11097-69-1	Aroclor-1254	19,400		µg/kg dry	227	10	"	"	"	"	
11096-82-5	Aroclor-1260	3,310		µg/kg dry	227	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	227	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	227	10	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	425	S02	30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	130		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	3,400		mg/kg dry	1.58	1	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	83.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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Sample Identification**S233-4-6**

SB04040-72

Client Project #

458-02B/001

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	25.0	1	SW846 8082	23-Nov-09	25-Nov-09	9111840	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	25.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	25.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	25.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	25.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	4,780		µg/kg dry	25.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,500		µg/kg dry	25.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	25.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	25.0	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	51		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	68		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	50		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	117		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	75.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

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Sample Identification**S233-6-8**

SB04040-73

Client Project #

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	60.1		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S234-0-2**

SB04040-74

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	91.4		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S234-2-4**

SB04040-75

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	85.6		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S234-4-6**

SB04040-76

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:00

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13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	72.8		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S235-0-2**

SB04040-77

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:10

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	89.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S235-2-4**

SB04040-78

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:10

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13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	87.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111330	

Sample Identification**S235-4-6**

SB04040-79

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

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Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	67.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S236-0-2**

SB04040-80

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:15

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	82.3		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S236-2-4**

SB04040-81

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:15

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	81.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S236-4-6**

SB04040-82

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:15

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	75.5		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S237-0-2**

SB04040-83

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	92.0		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S237-2-4**

SB04040-84

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	84.9		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S237-4-6**

SB04040-85

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 12:30

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	16-Nov-09	23-Nov-09	9111212	
General Chemistry Parameters											
	% Solids	73.0		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

Sample Identification**S255-4-6**

SB04040-86

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

12-Nov-09 11:00

Received

13-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatiles Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.1	1	SW846 8082	16-Nov-09	20-Nov-09	9111209	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	3,720		µg/kg dry	21.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	1,400		µg/kg dry	21.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	2,390		µg/kg dry	21.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	72		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	73		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	64		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	23,000	GS1	mg/kg dry	32.0	20	SW846 6010B	19-Nov-09	20-Nov-09	9111409	
General Chemistry Parameters											
	% Solids	92.2		%		1	SM2540 G Mod.	17-Nov-09	17-Nov-09	9111341	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111210 - SW846 3540C										
<u>Blank (9111210-BLK1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A							
<u>LCS (9111210-BS1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A					0-200		
<u>LCS Dup (9111210-BSD1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A					0-200		200
<u>Duplicate (9111210-DUP1)</u> Source: SB04040-06										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed				200
<u>Matrix Spike (9111210-MS1)</u> Source: SB04040-06										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed		0-200		
<u>Matrix Spike Dup (9111210-MSD1)</u> Source: SB04040-06										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed		0-200		200
Batch 9111211 - SW846 3540C										
<u>Blank (9111211-BLK1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A							
<u>LCS (9111211-BS1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A					0-200		
<u>LCS Dup (9111211-BSD1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A					0-200		200
<u>Duplicate (9111211-DUP1)</u> Source: SB04040-41										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed				200
<u>Matrix Spike (9111211-MS1)</u> Source: SB04040-41										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed		0-200		
<u>Matrix Spike Dup (9111211-MSD1)</u> Source: SB04040-41										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed		0-200		200
Batch 9111212 - SW846 3540C										
<u>Blank (9111212-BLK1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A							
<u>LCS (9111212-BS1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A					0-200		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111212 - SW846 3540C										
<u>LCS Dup (9111212-BSD1)</u>										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A					0-200		200
<u>Duplicate (9111212-DUP1)</u> Source: SB04040-65										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed				200
<u>Matrix Spike (9111212-MS1)</u> Source: SB04040-65										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed		0-200		
<u>Matrix Spike Dup (9111212-MSD1)</u> Source: SB04040-65										
Prepared: 16-Nov-09 Analyzed: 23-Nov-09										
Extraction	Completed		N/A			Completed		0-200		200

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111208 - SW846 3540C										
<u>Blank (9111208-BLK1)</u>										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1016	BRL		µg/kg wet we	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1221	BRL		µg/kg wet we	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1232	BRL		µg/kg wet we	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1242	BRL		µg/kg wet we	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1248	BRL		µg/kg wet we	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1254	BRL		µg/kg wet we	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1260	BRL		µg/kg wet we	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1262	BRL		µg/kg wet we	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1268	BRL		µg/kg wet we	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet we	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	19.6		µg/kg wet we		20.0		98	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	19.4		µg/kg wet we		20.0		97	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.0		µg/kg wet we		20.0		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.7		µg/kg wet we		20.0		88	30-150		
<u>LCS (9111208-BS1)</u>										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1016	227		µg/kg wet we	20.0	250		91	50-140		
Aroclor-1016 [2C]	211		µg/kg wet we	20.0	250		84	50-140		
Aroclor-1260	200		µg/kg wet we	20.0	250		80	50-140		
Aroclor-1260 [2C]	211		µg/kg wet we	20.0	250		84	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.2		µg/kg wet we		20.0		86	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	16.8		µg/kg wet we		20.0		84	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.2		µg/kg wet we		20.0		71	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.9		µg/kg wet we		20.0		84	30-150		
<u>LCS Dup (9111208-BSD1)</u>										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1016	235		µg/kg wet we	20.0	250		94	50-140	3	30
Aroclor-1016 [2C]	209		µg/kg wet we	20.0	250		83	50-140	1	30
Aroclor-1260	221		µg/kg wet we	20.0	250		88	50-140	10	30
Aroclor-1260 [2C]	212		µg/kg wet we	20.0	250		85	50-140	0.6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.4		µg/kg wet we		20.0		87	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	16.8		µg/kg wet we		20.0		84	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.7		µg/kg wet we		20.0		74	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.0		µg/kg wet we		20.0		85	30-150		
<u>Duplicate (9111208-DUP1)</u>										
Source: SB04040-01										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1016	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1221	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	21.6		BRL				40

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit
Batch 9111208 - SW846 3540C										
Duplicate (9111208-DUP1) Source: SB04040-01										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1242	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1254	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1254 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1260	2100		µg/kg dry dry	21.6		1810			15	40
Aroclor-1260 [2C]	2400		µg/kg dry dry	21.6		2270			6	40
Aroclor-1262	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1268	BRL		µg/kg dry dry	21.6		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	21.6		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.1		µg/kg dry dry		21.6		84	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.8		µg/kg dry dry		21.6		83	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.8		µg/kg dry dry		21.6		92	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.5		µg/kg dry dry		21.6		100	30-150		
Matrix Spike (9111208-MS1) Source: SB04040-01										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1016	208		µg/kg dry dry	21.7	271	BRL	77	40-135		
Aroclor-1016 [2C]	244		µg/kg dry dry	21.7	271	BRL	90	40-135		
Aroclor-1260	6820	QM7	µg/kg dry dry	21.7	271	1810	1850	40-135		
Aroclor-1260 [2C]	8210	QM7	µg/kg dry dry	21.7	271	2270	2200	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.9		µg/kg dry dry		21.7		83	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	18.1		µg/kg dry dry		21.7		83	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.9		µg/kg dry dry		21.7		78	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.3		µg/kg dry dry		21.7		89	30-150		
Matrix Spike Dup (9111208-MSD1) Source: SB04040-01										
Prepared: 16-Nov-09 Analyzed: 18-Nov-09										
Aroclor-1016	222		µg/kg dry dry	21.3	266	BRL	84	40-135	8	15
Aroclor-1016 [2C]	226		µg/kg dry dry	21.3	266	BRL	85	40-135	6	15
Aroclor-1260	2640	QM7, QR5	µg/kg dry dry	21.3	266	1810	312	40-135	142	20
Aroclor-1260 [2C]	3590	QM7, QR5	µg/kg dry dry	21.3	266	2270	495	40-135	126	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.0		µg/kg dry dry		21.3		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	18.8		µg/kg dry dry		21.3		89	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.6		µg/kg dry dry		21.3		83	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.6		µg/kg dry dry		21.3		102	30-150		
Batch 9111209 - SW846 3540C										
Blank (9111209-BLK1)										
Prepared: 16-Nov-09 Analyzed: 19-Nov-09										
Aroclor-1016	BRL		µg/kg wet we	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1221	BRL		µg/kg wet we	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1232	BRL		µg/kg wet we	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1242	BRL		µg/kg wet we	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1248	BRL		µg/kg wet we	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet we	20.0						

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111209 - SW846 3540C										
Blank (9111209-BLK1)										
Prepared: 16-Nov-09 Analyzed: 19-Nov-09										
Aroclor-1254	BRL		µg/kg wet we	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1260	BRL		µg/kg wet we	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1262	BRL		µg/kg wet we	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1268	BRL		µg/kg wet we	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet we	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.3		µg/kg wet we		20.0		92	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	18.4		µg/kg wet we		20.0		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	26.9		µg/kg wet we		20.0		135	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.7		µg/kg wet we		20.0		109	30-150		
LCS (9111209-BS1)										
Prepared: 16-Nov-09 Analyzed: 19-Nov-09										
Aroclor-1016	270		µg/kg wet we	20.0	250		108	50-140		
Aroclor-1016 [2C]	235		µg/kg wet we	20.0	250		94	50-140		
Aroclor-1260	263		µg/kg wet we	20.0	250		105	50-140		
Aroclor-1260 [2C]	254		µg/kg wet we	20.0	250		101	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.2		µg/kg wet we		20.0		86	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.7		µg/kg wet we		20.0		88	30-150		
Surrogate: Decachlorobiphenyl (Sr)	25.5		µg/kg wet we		20.0		128	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.7		µg/kg wet we		20.0		109	30-150		
LCS Dup (9111209-BSD1)										
Prepared: 16-Nov-09 Analyzed: 19-Nov-09										
Aroclor-1016	266		µg/kg wet we	20.0	250		106	50-140	1	30
Aroclor-1016 [2C]	224		µg/kg wet we	20.0	250		89	50-140	5	30
Aroclor-1260	264		µg/kg wet we	20.0	250		106	50-140	0.6	30
Aroclor-1260 [2C]	246		µg/kg wet we	20.0	250		98	50-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.1		µg/kg wet we		20.0		86	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.1		µg/kg wet we		20.0		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.7		µg/kg wet we		20.0		119	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.1		µg/kg wet we		20.0		106	30-150		
Duplicate (9111209-DUP1) Source: SB04040-48										
Prepared: 16-Nov-09 Analyzed: 20-Nov-09										
Aroclor-1016	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1221	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1242	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1254	3780		µg/kg dry dry	209		2960			25	40
Aroclor-1254 [2C]	4070		µg/kg dry dry	209		3310			21	40
Aroclor-1260	7310		µg/kg dry dry	209		6060			19	40
Aroclor-1260 [2C]	9150		µg/kg dry dry	209		7320			22	40
Aroclor-1262	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	209		BRL				40

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111209 - SW846 3540C										
<u>Duplicate (9111209-DUP1)</u>			Source: SB04040-48							
Prepared: 16-Nov-09 Analyzed: 20-Nov-09										
Aroclor-1268	BRL		µg/kg dry dry	209		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	209		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.9		µg/kg dry dry		20.9		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.7		µg/kg dry dry		20.9		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	27.1		µg/kg dry dry		20.9		130	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	28.2		µg/kg dry dry		20.9		135	30-150		
<u>Matrix Spike (9111209-MS1)</u>			Source: SB04040-48							
Prepared: 16-Nov-09 Analyzed: 20-Nov-09										
Aroclor-1016	333		µg/kg dry dry	211	264	BRL	126	40-135		
Aroclor-1016 [2C]	321		µg/kg dry dry	211	264	BRL	122	40-135		
Aroclor-1260	7850	QM7	µg/kg dry dry	211	264	6060	679	40-135		
Aroclor-1260 [2C]	10600	QM7	µg/kg dry dry	211	264	7320	1250	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	23.2		µg/kg dry dry		21.1		110	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	18.0		µg/kg dry dry		21.1		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	28.5		µg/kg dry dry		21.1		135	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	25.4		µg/kg dry dry		21.1		120	30-150		
<u>Matrix Spike Dup (9111209-MSD1)</u>			Source: SB04040-48							
Prepared: 16-Nov-09 Analyzed: 20-Nov-09										
Aroclor-1016	318		µg/kg dry dry	206	257	BRL	124	40-135	2	15
Aroclor-1016 [2C]	327		µg/kg dry dry	206	257	BRL	127	40-135	5	15
Aroclor-1260	7310	QM7, QR5	µg/kg dry dry	206	257	6060	483	40-135	34	20
Aroclor-1260 [2C]	9150	QM7, QR5	µg/kg dry dry	206	257	7320	713	40-135	55	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.6		µg/kg dry dry		20.6		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	15.4		µg/kg dry dry		20.6		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	25.7		µg/kg dry dry		20.6		125	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	25.7		µg/kg dry dry		20.6		125	30-150		
Batch 9111840 - SW846 3540C										
<u>Blank (9111840-BLK1)</u>										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	BRL		µg/kg wet we	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1221	BRL		µg/kg wet we	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1232	BRL		µg/kg wet we	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1242	BRL		µg/kg wet we	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1248	BRL		µg/kg wet we	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1254	BRL		µg/kg wet we	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1260	BRL		µg/kg wet we	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1262	BRL		µg/kg wet we	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1268	BRL		µg/kg wet we	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet we	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.7		µg/kg wet we		20.0		64	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	12.9		µg/kg wet we		20.0		64	30-150		

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111840 - SW846 3540C										
Blank (9111840-BLK1)										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Surrogate: Decachlorobiphenyl (Sr)	17.2		µg/kg wet we	20.0	20.0		86	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.7		µg/kg wet we	20.0	20.0		68	30-150		
LCS (9111840-BS1)										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	215		µg/kg wet we	20.0	250		86	50-140		
Aroclor-1016 [2C]	214		µg/kg wet we	20.0	250		85	50-140		
Aroclor-1260	216		µg/kg wet we	20.0	250		87	50-140		
Aroclor-1260 [2C]	232		µg/kg wet we	20.0	250		93	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.8		µg/kg wet we	20.0	20.0		64	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	12.1		µg/kg wet we	20.0	20.0		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.0		µg/kg wet we	20.0	20.0		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.7		µg/kg wet we	20.0	20.0		74	30-150		
LCS Dup (9111840-BSD1)										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	223		µg/kg wet we	20.0	250		89	50-140	4	30
Aroclor-1016 [2C]	223		µg/kg wet we	20.0	250		89	50-140	4	30
Aroclor-1260	230		µg/kg wet we	20.0	250		92	50-140	6	30
Aroclor-1260 [2C]	231		µg/kg wet we	20.0	250		92	50-140	0.7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet we	20.0	20.0		66	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	12.2		µg/kg wet we	20.0	20.0		61	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.8		µg/kg wet we	20.0	20.0		89	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.1		µg/kg wet we	20.0	20.0		76	30-150		
Duplicate (9111840-DUP1) Source: SB04040-41										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1221	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1242	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1254	330		µg/kg dry dry	20.0		360			9	40
Aroclor-1254 [2C]	338		µg/kg dry dry	20.0		275			20	40
Aroclor-1260	421		µg/kg dry dry	20.0		570			30	40
Aroclor-1260 [2C]	453		µg/kg dry dry	20.0		487			7	40
Aroclor-1262	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1268	BRL		µg/kg dry dry	20.0		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	20.0		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.8		µg/kg dry dry	20.0	20.0		64	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	13.1		µg/kg dry dry	20.0	20.0		66	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.9		µg/kg dry dry	20.0	20.0		94	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.0		µg/kg dry dry	20.0	20.0		95	30-150		
Duplicate (9111840-DUP2) Source: SB04040-65										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	26.0		BRL				40

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 9111840 - SW846 3540C										
Duplicate (9111840-DUP2) Source: SB04040-65										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1221	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1242	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1254	1320		µg/kg dry dry	26.0		1510			14	40
Aroclor-1254 [2C]	1200		µg/kg dry dry	26.0		1450			19	40
Aroclor-1260	494		µg/kg dry dry	26.0		587			17	40
Aroclor-1260 [2C]	748		µg/kg dry dry	26.0		715			5	40
Aroclor-1262	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1268	BRL		µg/kg dry dry	26.0		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	26.0		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.2		µg/kg dry dry		26.0		43	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	13.5		µg/kg dry dry		26.0		52	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.9		µg/kg dry dry		26.0		58	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	32.8		µg/kg dry dry		26.0		126	30-150		
Matrix Spike (9111840-MS1) Source: SB04040-41										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	227		µg/kg dry dry	20.5	256	BRL	89	40-135		
Aroclor-1016 [2C]	215		µg/kg dry dry	20.5	256	BRL	84	40-135		
Aroclor-1260	710		µg/kg dry dry	20.5	256	570	54	40-135		
Aroclor-1260 [2C]	730		µg/kg dry dry	20.5	256	487	95	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	6.97		µg/kg dry dry		20.5		34	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	11.6		µg/kg dry dry		20.5		56	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.4		µg/kg dry dry		20.5		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.1		µg/kg dry dry		20.5		93	30-150		
Matrix Spike (9111840-MS2) Source: SB04040-65										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	334		µg/kg dry dry	24.9	311	BRL	107	40-135		
Aroclor-1016 [2C]	304		µg/kg dry dry	24.9	311	BRL	98	40-135		
Aroclor-1260	436	QM2	µg/kg dry dry	24.9	311	587	-48	40-135		
Aroclor-1260 [2C]	702	QM2	µg/kg dry dry	24.9	311	715	-4	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.2		µg/kg dry dry		24.9		49	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	13.6		µg/kg dry dry		24.9		54	30-150		
Surrogate: Decachlorobiphenyl (Sr)	10.7		µg/kg dry dry		24.9		43	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	32.2		µg/kg dry dry		24.9		130	30-150		
Matrix Spike Dup (9111840-MSD1) Source: SB04040-41										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	223		µg/kg dry dry	21.1	264	BRL	85	40-135	5	15
Aroclor-1016 [2C]	209		µg/kg dry dry	21.1	264	BRL	79	40-135	6	15
Aroclor-1260	518	QM2	µg/kg dry dry	21.1	264	570	-20	40-135	NR	20
Aroclor-1260 [2C]	602	QM2	µg/kg dry dry	21.1	264	487	44	40-135	73	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg dry dry		21.1		62	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	12.6		µg/kg dry dry		21.1		59	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.9		µg/kg dry dry		21.1		66	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.4		µg/kg dry dry		21.1		82	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111840 - SW846 3540C										
Matrix Spike Dup (9111840-MSD2) Source: SB04040-65										
Prepared: 23-Nov-09 Analyzed: 25-Nov-09										
Aroclor-1016	282	QM2	µg/kg dry dry	26.6	332	BRL	85	40-135	23	15
Aroclor-1016 [2C]	294		µg/kg dry dry	26.6	332	BRL	89	40-135	10	15
Aroclor-1260	730		µg/kg dry dry	26.6	332	587	43	40-135	NR	20
Aroclor-1260 [2C]	749	QM2	µg/kg dry dry	26.6	332	715	10	40-135	NR	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.6		µg/kg dry dry		26.6		44	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	12.4		µg/kg dry dry		26.6		46	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.4		µg/kg dry dry		26.6		66	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	24.2		µg/kg dry dry		26.6		91	30-150		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111360 - SW846 3050B										
Blank (9111360-BLK1)										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	BRL		mg/kg wet we	1.40						
Duplicate (9111360-DUP1) Source: SB04040-15										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	2790	QR9	mg/kg dry dry	1.63		2010			32	20
Matrix Spike (9111360-MS1) Source: SB04040-11										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	1040	QM2	mg/kg dry dry	1.43	119	1520	-405	75-125		
Matrix Spike Dup (9111360-MSD1) Source: SB04040-11										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	1460	QM2, QR9	mg/kg dry dry	1.55	129	1520	-44	75-125	34	20
Post Spike (9111360-PS1) Source: SB04040-11										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	1550	QM2	mg/kg dry dry	1.39	116	1520	24	80-120		
Reference (9111360-SRM1)										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	55.5		mg/kg wet we	1.50	54.1		103	79.1-120.3		
Reference (9111360-SRM2)										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	56.8		mg/kg wet we	1.50	55.1		103	79.1-120.3		
Batch 9111409 - SW846 3050B										
Blank (9111409-BLK1)										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	BRL		mg/kg wet we	1.30						
Reference (9111409-SRM1)										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	55.2		mg/kg wet we	1.50	53.8		103	80.3-119.6		
Reference (9111409-SRM2)										
Prepared: 19-Nov-09 Analyzed: 20-Nov-09										
Lead	53.2		mg/kg wet we	1.50	54.3		98	80.3-119.6		

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 9111328 - General Preparation									
<u>Duplicate (9111328-DUP1)</u>	Source: SB04040-19								
Prepared & Analyzed: 17-Nov-09									
% Solids	80.5		%			83.6		4	20
Batch 9111329 - General Preparation									
<u>Duplicate (9111329-DUP1)</u>	Source: SB04040-39								
Prepared & Analyzed: 17-Nov-09									
% Solids	83.7		%			84.1		0.5	20
Batch 9111330 - General Preparation									
<u>Duplicate (9111330-DUP1)</u>	Source: SB04040-59								
Prepared & Analyzed: 17-Nov-09									
% Solids	80.8		%			82.5		2	20

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR5	RPD out of acceptance range.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.


Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Kim Wisk
Nicole Leja
Rebecca Merz

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

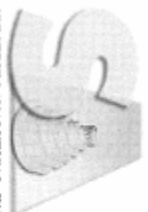
Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA			Project #: 458-02B/001		
Project Location: Topeka - Roxbury, MA			MADEP RTN ¹ :		
This form provides certifications for the following data set: SB04040-01 through SB04040-86					
Sample matrices:		Soil			
MCP SW-846 Methods Used	<input type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input checked="" type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input type="checkbox"/> 8081A	<input type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input checked="" type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte					
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input type="checkbox"/> Yes <input type="checkbox"/> No
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
All negative responses are addressed in a case narrative on the cover page of this report.					
<p>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</p> <div style="text-align: right;">  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 11/30/2009 </div>					

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 105 of 105



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01702

CHAIN OF CUSTODY RECORD

Page 1 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/20/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Mattick, MA 01740

02760

Project Mgr: Dan Marsh

Telephone #: 508-653-8607

Invoice To: Same

P.O. No.:

RON:

Project No.: 458-02B/001

Site Name: Topeka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moaviz

List preservative code below:

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH

8=NaHSO₄ 9= 10= 11=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Containers:

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Analyses:

QA/QC Reporting Notes:

(check as needed)

☒ Provide MA DEP MCP CAM Report

☐ Provide CT DEP RCP Report

QA/QC Reporting Level

☒ Standard ☐ No QC

Other

State specific reporting standards:

5-1/3-2/5-3

IF unchecked,

please extract for PCBs

& hold for

analysis

Also Soxhlet

Extraction

Date: 11/13/09 Time: 12:14

Date: 11/13/09 Time: 15:30

EDD Format pdf

E-mail to dmash@irwinengineers.com

Relinquished by: [Signature]

Received by: [Signature]

Condition upon receipt: ☐ Iced ☐ Ambient 4.5

REF

11 Alington Drive • Agawam, MA 01001 • 413-789-9018 • FAX 413-789-4076 • www.spectrum-analytical.com

3.5°C



SPECTRUM ANALYTICAL, INC.
Featuring
HAMBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/18/04
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Mattuck, MA 01740

Project Mgr: Don Marsh

Telephone #: 508-653-9001

P.O. No.: _____

RQN: _____

Project No.: 454-0713/001

Site Name: Topoka

Location: Roxbury

State: MA

Sampler(s): Don Marsh, Garret Meniz

QA/QC Reporting Notes:
(check as needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=_____ 10=_____ 11=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id.	Sample Id.	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA/QC Reporting Notes:
04610/11	S204-6-2	11/12/04	9:30	C	SO	1					PCB ₃ Method 8082 Total Pb	State specific reporting standards: 5-15-2/5-3 If unchecked, please extract for PCBs ; hold for analysis
12	S204-2-4		9:30									
13	S204-4-6		9:30									
14	S204-6-8		9:30									
15	S205-0-2		9:30									
16	S205-2-4		9:30									
17	S205-4-6		9:30									
18	S206-6-2		9:40									
19	S206-2-4		9:40									
20	S206-4-6		9:40									

EIDD Format pdf

E-mail to dmarch@erwineengineers.com

Condition upon receipt: ☐ Iced ☐ Ambient

Relinquished by:

Received by:

Date:

Time:



SPECTRUM ANALYTICAL, INC.
Framingham
MASSACHUSETTS 01901

CHAIN OF CUSTODY RECORD

Page 3 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/30/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Natick, MA 01740

Invoice To: same

Project No.: 458-025/601

Site Name: Tupeka

Location: Roxbury State: MA

Sampler(s): Dan Marsh, Garrett Meniz

Project Mgr: Dan Marsh

Telephone #: 508-653-8007

P.O. No.: RQN:

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9= 10= 11=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA/QC Reporting Notes: (check as needed)
04010-21	S207-0-2	11/13/09	11:30	C	SO	1					PCBs Method 8082 Total Pb	Provide MA DEP MCP CAM Report Provide CT DEP RCP Report QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC Other <u></u> State specific reporting standards: <u>5-15-215-3</u>
22	S207-2-4		11:30									IF unchecked, please extract & PCBs hold for analysis
23	S207-4-6		11:30									
24	S208-0-2		10:30									
25	S208-2-4		10:30									
26	S208-4-6		10:30									
27	S208-6-8		10:30									
28	S209-0-2		10:10									
29	S209-2-4		10:10									
30	S209-4-6		10:10									

EDD Format: dmars pdf

E-mail to: dmars@erwinengineers.com

Condition upon receipt: ☐ Ice ☐ Ambient 4.5

Relinquished by:

Received by:

Date: 11/13/09 Time: 12:14

[Signature]

[Signature]

Date: 11/13/09 Time: 15:30

RET



SPECTRUM ANALYTICAL, INC.
Framingham
HANBILAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/30/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Natick, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: same

Project No.: 458-03B/001

Site Name: Topeka

Location: Roxbury

Sampler(s): Dan Marsh, Garrett Moniz

P.O. No.: _____

RON: _____

Containers:

Analyses:

O/A Reporting Notes:
(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid

7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	O/A Reporting Notes: (check if needed)
04040-31	S210-0-2	11/12/09	10:00	C	SO	NA		1			PCBs Method 8082 Total Pb	<input checked="" type="checkbox"/> Provide MA DEP MCP C/M Report <input type="checkbox"/> Provide CT DEP RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other State specific reporting standards: 5-1/5-2/5-3
32	S210-2-4		10:00									
33	S210-4-6		10:00									
34	S210-6-8		10:00									
35	S211-0-8		9:50									
36	S211-2-4		9:50									
37	S211-4-6		9:50									
38	S212-0-2		9:45									
39	S212-2-4		9:45									
40	S212-4-6		9:45									

If unchecked,
Please extract for PCBs
+ hold for analysis

Soxhlet

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to () _____

☒ E-mail to dmash@irwinengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient 4/5

Dan Marsh

Garrett Moniz

11/13/09

12:14

11/13/09

15:30



SPECTRUM ANALYTICAL, INC.
Pioneering
HARVARD TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/17/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Natick, MA 01740

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.:

RON:

Project No.: 458-07B/061

Site Name: Topoka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moniz

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

I=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
41	SA13-0-2	11/12/09	11:35	C	SO	NA	1						
42	SA13-2-4		11:35										
43	SA13-4-6		11:35										
44	SA14-0-2		10:30										
45	SA14-2-4		10:30										
46	SA14-4-6		10:30										
47	SA14-6-8		10:30										
48	SA15-0-2		10:45										
49	SA15-2-4		10:45										
50	SA15-4-6		10:45										

State specific reporting standards:
5-115-27-5-3

If uncleaned,
please extract for PCBs,
+ hold for analysis

Soxhlet

David M. West

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to ()

☒ E-mail to dmarsh@erwinengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient 9°C 4/5

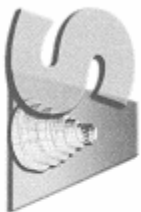
Dan Marsh

Garrett Moniz

11/13/09 12:14

11/13/09 15:13

Ref



SPECTRUM ANALYTICAL, INC.
Framingham
HANBELL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 6 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/10/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Waltham, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

Project No.: 458-0281001

Site Name: Tyoka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Gerrit Moric

P.O. No.: _____

RQN: _____

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9=_____
10=_____
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____
X2=_____
X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
44040-51	SA16-0-2	11/10/09	10:55	C	SO	NA	1				PCBs Method 8082 Total Pb	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other State specific reporting standards: 5-1/5-2/5-3
S2	SA16-2-4		10:55									
S3	SA16-4-6		10:55									
S4	SA16-6-8		10:55									
S5	SA17-0-2		11:10									
S6	SA17-2-4		11:10									
S7	SA17-4-6		11:10									
S8	SA18-0-2		11:15									
S9	SA18-2-4		11:15									
S10	SA18-4-6		11:15									

Relinquished by:

Received by:

Date:

Time:

☒ Fax results when available to () _____

E-mail to dmarshe@erwineengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient 9°C 4.5



SPECTRUM ANALYTICAL, INC.
PASTOR
HAMILTON, MA 01901

CHAIN OF CUSTODY RECORD

Page 7 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/10/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Natick, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.:

RON:

Project No.: 458-02B/001

Site Name: Tupera

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moriz

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
041010-61	S230-0-2	11/12/09	12:35	C	SO	NA	1				PCBs Methal BOD	
62	S230-2-4		12:35								Total Pb	
63	S230-4-6		12:35									
64	S231-0-2		12:45									
65	S231-2-4		12:45									
66	S231-4-6		12:45									
67	S232-0-2		12:55									
68	S232-2-4		12:55									
69	S232-4-6		12:55									

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to ()

☒ E-mail to dmars@erwinengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient pc 4.5

Dan Marsh

Key

11/13/09 12:14

11/13/09 15:30



SPECTRUM ANALYTICAL, INC.
Pawtucket
HANBIL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 8 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/16/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

North, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

Project No.: 456-003/001

Site Name: Topeka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moize

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
01010-70	S233-0-2	11/12/09	1:00	C	SO	NA	1					PCBs Method 8082 Total Pb	Provide MA DEP MCP CAM Report Provide CT DEP RCP Report QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC Other <input type="checkbox"/> State specific reporting standards: 5-1/52/53
71	S233-2-4		1:00										
72	S233-4-6		1:00										
73	S233-6-8		1:00										
74	S234-0-2		12:00										
75	S234-2-4		12:00										
76	S234-4-6		12:00										
77	S235-0-2		12:10										
78	S235-2-4		12:10										
79	S235-4-6		12:10										

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to ()

☒ E-mail to dmarch@erwinengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient 90C 45



SPECTRUM ANALYTICAL, INC.
Pawtucket
RHODE ISLAND 02860

CHAIN OF CUSTODY RECORD

Page 9 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/10/04
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Natick, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.:

RON:

Project No.: 458-020/001

Site Name: Topka

Location: Rebury

State: MA

Sampler(s): Dan Marsh, Garrett Moutz

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
04640-80	S236-0-2	11/12/04	12:15	C	SO	NA	1				PCBs Total Pb	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other State specific reporting standards: 5-1/53/5-3
81	S236-2-4		12:15									
82	S236-4-6		12:15									
83	S237-0-2		12:30									
84	S237-2-4		12:30									
85	S237-4-6		12:30									
86	S255-4-6		11:00									

Relinquished by:

Received by:

Date: Time:

☐ Fax results when available to ()
☒ E-mail to dmarch@irwineengineers.com
E-mail Format pdf
Condition upon receipt: ☐ Iced ☐ Ambient pcyls

Dan Marsh

Ky P

11/13/04 12:14
4/13/04 15:30



SPECTRUM ANALYTICAL, INC.
Featuring
ENVIRONMENTAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/10/04
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Mattuk, MA 01740

Invoice To: Same

Project No.: 458-07B/001

Site Name: Topoka

Location: Roxbury State: MA

Sampler(s): Dan Marsh, Garret Moniz

Project Mgr.: Dan Marsh

P.O. No.: _____

RQN: _____

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=_____ 10=_____ 11=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	List preservative code below:	QA/QC Reporting Notes: (check as needed)
010610/11	S204-0-2	11/12/04	9:30	C	SO	1					PCBs, Method 8082 Total Pb		<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DEP RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other _____ State specific reporting standards: <u>5-15-2/5-3</u>
12	S204-2-4		9:30										IF unchecked, please extract for PCBs ; hold for analysis
13	S204-4-6		9:30										
14	S204-6-8		9:30										
15	S205-0-2		9:30										
16	S205-2-4		9:30										
17	S205-4-6		9:30										
18	S206-0-2		9:40										
19	S206-2-4		9:40										
20	S206-4-6		9:40										

Relinquished by: _____

Received by: _____

Date: _____ Time: _____

EDD Format: pdf
☒ E-mail to dmarsch@erwinengineers.com

Condition upon receipt: ☐ Iced ☐ Ambient 4°C



SPECTRUM ANALYTICAL, INC.
Pawtucket
RHODE ISLAND

CHAIN OF CUSTODY RECORD

Page 3 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/20/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for mishaps.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

North, MA 01740

Invoice To: same

Project No.: 458-025/001

Site Name: Topeka

Location: Roxbury

State: MA

Project Mgr: Dan Marsh

P.O. No.: _____

RQN: _____

Sampler(s): Dan Marsh, Garrett Moniz

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9= _____ 10= _____ 11= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Containers:

Analyses:

List preservative code below:

QA/QC Reporting Notes:
(check as needed)

- ☒ Provide MA DEP MCP CAM Report
- ☐ Provide CT DPH RCP Report
- QA/QC Reporting Level
- ☒ Standard ☐ No QC
- Other _____

State specific reporting standards:
5-1523/5-3

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA/QC Reporting Notes:
04040-21	5207-0-2	11/12/09	11:30	C	SO	1					PCBs Method 8060 Total Pb	
22	5207-2-4		11:30									
23	5207-4-6		11:30									
24	5208-0-2		10:20									
25	5208-2-4		10:20									
26	5208-4-6		10:20									
27	5208-6-8		10:20									
28	5209-0-2		10:10									
29	5209-2-4		10:10									
30	5209-4-6		10:10									

Relinquished by:

Received by:

Date: _____ Time: _____

EIDD Format: dmarsch.pdf
E-mail to: dmarsch@irwinengineers.com

Condition upon receipt: ☐ Lead ☐ Ambient 4.5

REF

58.04040

58



SPECTRUM ANALYTICAL, INC.
Pawtucket
RHODE ISLAND 02860

CHAIN OF CUSTODY RECORD

Page 4 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/30/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Natick, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: same

P.O. No.:

RON:

Project No.: 458-03B/001

Site Name: Topeka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moize

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid

7=CH₃OH 8=NaHSO₄ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)	Received By:	Date:	Time:
4040-31	S210-0-2	11/12/09	10:00	C	SO	MA		1				PCBs Method 8082 Total Pb	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report <input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other State specific reporting standards: 5-1/5-2/5-3			
32	S210-2-4		10:00													
33	S210-4-6		10:00													
34	S210-6-8		10:00													
35	S211-0-2		9:50													
36	S211-2-4		9:50													
37	S211-4-6		9:50													
38	S212-0-2		9:45													
39	S212-2-4		9:45													
40	S212-4-6		9:45													

Relinquished by: Dan Marsh

Received by: Ky F

Date: 11/13/09 Time: 12:14

Condition upon receipt: ☐ Iced ☐ Ambient 4/5

EDD Format: pdf

E-mail to: dmars@irwinengineers.com

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01702

CHAIN OF CUSTODY RECORD

Page 5 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/10/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Mattick, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: same

Project No.: 458-07B/001

Site Name: Topeka

Location: Roadway

State: MA

P.O. No.: _____

RQN: _____

Sampler(s): Dan Marsh, Garret Maize

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid

7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
04040-41	SA13-0-2	11/10/09	11:35	C	SO	NA	1					PCBs Method 8080 Total Pb	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> Other State specific reporting standards: 5-115-275-3
42	SA13-2-4		11:35										
43	SA13-4-6		11:35										
44	SA14-0-2		10:30										
45	SA14-2-4		10:30										
46	SA14-4-6		10:30										
47	SA14-6-8		10:30										
48	SA15-0-2		10:45										
49	SA15-2-4		10:45										
50	SA15-4-6		10:45										

Relinquished by: [Signature] Received by: [Signature]

Condition upon receipt: ☐ Ice ☐ Ambient 9°C 4.5

DD Format: pdf

E-mail to: dmarsh@erwineengineers.com

Date: 11/13/09 Time: 12:14

Date: 11/13/09 Time: 15:13



SPECTRUM ANALYTICAL, INC.
Pawtucket
RHODE ISLAND 02861

CHAIN OF CUSTODY RECORD

Page 6 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/20/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Waltham, MA 01760

508-653-8607

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.: R.O.N.:

Project No.: 158-073/601

Site Name: Tupika

Location: Roxbury State: MA

Sampler(s): Dan Marsh, Garrett Moniz

Containers:

Analyses:

QA Reporting Notes:

(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes:
04040-S1	SA16-0-2	11/11/09	10:55	C	SO	NA	1				PCBs, Metals, SO ₂	State specific reporting standards: 5-1/5-2/5-3
S1	SA16-2-4		10:55									
S3	SA16-4-6		10:55									
S4	SA16-6-8		10:55									
S5	SA17-0-2		11:10									
S6	SA17-2-4		11:10									
S7	SA17-4-6		11:10									
S8	SA18-0-2		11:15									
S9	SA18-2-4		11:15									
S10	SA18-4-6		11:15									

Relinquished by: Dan Marsh Received by: kgf

Condition upon receipt: ☐ Iced ☐ Ambient ☒ PC 4.5

Re-mail to: dmarsh@erwineengineers.com

ADD Format: pdf

Date: 11/30/09 Time: 12:14

Date: 11/13/09 Time: 15:03



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01701

CHAIN OF CUSTODY RECORD

Page 7 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/10/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Natick, MA 01740

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

Project No.: 458-02B/001

Site Name: Topoka

Location: Roxbury

Sampler(s): Dan Marsh, Garrett Moniz

P.O. No.:

RQN:

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
041010-61	S230-0-2	11/12/09	12:35	C	SO	NA	1				PCBs Method 8082	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report
62	S230-2-4		12:35									<input checked="" type="checkbox"/> QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC
63	S230-4-6		12:35									<input type="checkbox"/> Other
64	S231-0-2		12:45									State specific reporting standards: 5-1/3-2/3-3
65	S231-2-4		12:45									
66	S231-4-6		12:45									
67	S232-0-2		12:55									
68	S232-2-4		12:55									
69	S232-4-6		12:55									

Relinquish by:

Received by:

Date:

Time:

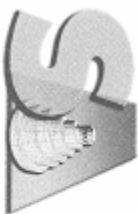
☐ Fax results when available to ()
☒ E-mail to dmars@irwinengineers.com
EDD Format pdf
Condition upon receipt: ☐ Iced ☐ Ambient 90 °F

Dan Marsh

Key

11/13/09 12:14

11/13/09 15:30



SPECTRUM ANALYTICAL, INC.
Proudly
HANBIL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 8 of 9

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/16/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Natick, MA 01760

508-653-8607

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.:

RON:

Project No.: 456-628/661

Site Name: Torona

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moize

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
01010-70	S233-0-2	11/12/09	1:00	C	SO	NA	1				PCBs, Method 8082	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report
71	S233-2-4		1:00								Total Pb	<input checked="" type="checkbox"/> Provide CT DPH RCP Report
72	S233-4-6		1:00									<input checked="" type="checkbox"/> QA/QC Reporting Level
73	S233-6-8		1:00									<input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC
74	S234-0-2		12:00									<input type="checkbox"/> Other
75	S234-2-4		12:00									State specific reporting standards: 5-1/52/53
76	S234-4-6		12:00									
77	S235-0-2		12:10									
78	S235-2-4		12:10									
79	S235-4-6		12:10									

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to ()

☒ E-mail to dmash@erwinengineers.com

EDD Format pdf

Condition upon receipt: ☐ Iced ☐ Ambient pc 45

Dan Marsh

Garrett Moize

11/13/09 12:14

11/13/09 15:36

S.B. 64040 Bm

RET

Report Date:
07-Dec-09 14:20



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Irwin Engineers, Inc.
33 West Central Street
Natick, MA 01760
Attn: Dan Marsh

Project: Topeka - Roxbury, MA
Project #: 458-02B/001

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB04164-01	S219-0-2	Soil	13-Nov-09 08:25	16-Nov-09 17:57
SB04164-02	S219-2-4	Soil	13-Nov-09 08:25	16-Nov-09 17:57
SB04164-03	S219-4-6	Soil	13-Nov-09 08:25	16-Nov-09 17:57
SB04164-04	S220-0-2	Soil	13-Nov-09 08:30	16-Nov-09 17:57
SB04164-05	S220-2-4	Soil	13-Nov-09 08:30	16-Nov-09 17:57
SB04164-06	S220-4-6	Soil	13-Nov-09 08:30	16-Nov-09 17:57
SB04164-07	S220-6-8	Soil	13-Nov-09 08:30	16-Nov-09 17:57
SB04164-08	S221-0-2	Soil	13-Nov-09 08:35	16-Nov-09 17:57
SB04164-09	S221-2-4	Soil	13-Nov-09 08:35	16-Nov-09 17:57
SB04164-10	S221-4-6	Soil	13-Nov-09 08:35	16-Nov-09 17:57
SB04164-11	S222-0-2	Soil	13-Nov-09 08:40	16-Nov-09 17:57
SB04164-12	S222-2-4	Soil	13-Nov-09 08:40	16-Nov-09 17:57
SB04164-13	S222-4-6	Soil	13-Nov-09 08:40	16-Nov-09 17:57
SB04164-14	S223-0-2	Soil	13-Nov-09 08:45	16-Nov-09 17:57
SB04164-15	S223-2-4	Soil	13-Nov-09 08:45	16-Nov-09 17:57
SB04164-16	S223-4-6	Soil	13-Nov-09 08:45	16-Nov-09 17:57
SB04164-17	S224-0-2	Soil	13-Nov-09 08:50	16-Nov-09 17:57
SB04164-18	S224-2-4	Soil	13-Nov-09 08:50	16-Nov-09 17:57
SB04164-19	S224-4-6	Soil	13-Nov-09 08:50	16-Nov-09 17:57
SB04164-20	S224-6-8	Soil	13-Nov-09 08:50	16-Nov-09 17:57
SB04164-21	S225-0-2	Soil	13-Nov-09 09:00	16-Nov-09 17:57
SB04164-22	S225-2-4	Soil	13-Nov-09 09:00	16-Nov-09 17:57
SB04164-23	S225-4-6	Soil	13-Nov-09 09:00	16-Nov-09 17:57
SB04164-24	S226-0-2	Soil	13-Nov-09 09:10	16-Nov-09 17:57
SB04164-25	S226-2-4	Soil	13-Nov-09 09:10	16-Nov-09 17:57
SB04164-26	S226-4-6	Soil	13-Nov-09 09:10	16-Nov-09 17:57
SB04164-27	S227-0-2	Soil	13-Nov-09 09:15	16-Nov-09 17:57
SB04164-28	S227-2-4	Soil	13-Nov-09 09:15	16-Nov-09 17:57
SB04164-29	S227-4-6	Soil	13-Nov-09 09:15	16-Nov-09 17:57
SB04164-30	S228-0-2	Soil	13-Nov-09 10:30	16-Nov-09 17:57
SB04164-31	S228-2-4	Soil	13-Nov-09 10:30	16-Nov-09 17:57
SB04164-32	S228-4-6	Soil	13-Nov-09 10:30	16-Nov-09 17:57
SB04164-33	S228-6-8	Soil	13-Nov-09 10:30	16-Nov-09 17:57
SB04164-34	S229-0-2	Soil	13-Nov-09 10:35	16-Nov-09 17:57
SB04164-35	S229-2-4	Soil	13-Nov-09 10:35	16-Nov-09 17:57
SB04164-36	S229-4-6	Soil	13-Nov-09 10:35	16-Nov-09 17:57
SB04164-37	S301-9-10	Soil	13-Nov-09 10:00	16-Nov-09 17:57
SB04164-38	S255-0-2	Soil	13-Nov-09 11:00	16-Nov-09 17:57

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please note that this report contains 70 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 4.3 degrees Celsius. The samples were transported on ice to the laboratory facility and the temperature was recorded at 2.0 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010B

Spikes:

9111575-MS1 *Source: SB04164-15*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111575-MS2 *Source: SB04164-38*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111575-MSD1 *Source: SB04164-15*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111575-MSD2 *Source: SB04164-38*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111575-PS1 *Source: SB04164-15*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

9111575-PS2 *Source: SB04164-38*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Lead

SW846 6010B**Samples:**

SB04164-04 S220-0-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-09 S221-2-4

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-11 S222-0-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-12 S222-2-4

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-14 S223-0-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-15 S223-2-4

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-17 S224-0-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-21 S225-0-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SB04164-38 S255-0-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Lead

SW846 8082

Spikes:

9111563-MS1 *Source: SB04164-15*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260

Aroclor-1260 [2C]

9111563-MS2 *Source: SB04164-38*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260

Aroclor-1260 [2C]

9111563-MSD1 *Source: SB04164-15*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260

Aroclor-1260 [2C]

The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Aroclor-1016 [2C]

9111563-MSD2 *Source: SB04164-38*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1260

Aroclor-1260 [2C]

Sample Identification**S219-0-2**

SB04164-01

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.8	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.8	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.8	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.8	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.8	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.8	1	"	"	"	"	
11096-82-5	Aroclor-1260	60.8		µg/kg dry	22.8	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.8	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.8	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	52		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	43		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	34		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,280		mg/kg dry	1.64	1	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	86.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

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Sample Identification**S219-2-4**

SB04164-02

Client Project #

458-02B/001

Matrix

Soil

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16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.9	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.9	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.9	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.9	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.9	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.9	1	"	"	"	"	
11096-82-5	Aroclor-1260	BRL		µg/kg dry	21.9	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.9	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.9	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	59		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	47		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	44		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	105		mg/kg dry	1.67	1	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	89.5		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S219-4-6**

SB04164-03

Client Project #

458-02B/001

Matrix

Soil

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Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	71.4		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S220-0-2**

SB04164-04

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:30

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.1	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	58.8		µg/kg dry	20.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	368		µg/kg dry	20.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	595		µg/kg dry	20.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	66		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	66		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	58		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	48		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	46,200	GS1	mg/kg dry	15.2	10	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	94.6		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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Sample Identification**S220-2-4**

SB04164-05

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.4	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	98.3		µg/kg dry	22.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	39		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	53		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	48		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	46		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	2,760		mg/kg dry	1.61	1	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	86.5		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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Sample Identification**S220-4-6**

SB04164-06

Client Project #

458-02B/001

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	83.8		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S220-6-8**

SB04164-07

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:30

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	90.1		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S221-0-2**

SB04164-08

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:35

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	19.8	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	19.8	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	19.8	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	19.8	1	"	"	"	"	
12672-29-6	Aroclor-1248	152		µg/kg dry	19.8	1	"	"	"	"	
11097-69-1	Aroclor-1254	448		µg/kg dry	19.8	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,060		µg/kg dry	19.8	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	19.8	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	19.8	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	51		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	67		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	63		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	72		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	869		mg/kg dry	1.56	1	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	92.5		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S221-2-4**

SB04164-09

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:35

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatiles Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	26.0	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	26.0	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	26.0	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	26.0	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	26.0	1	"	"	"	"	
11097-69-1	Aroclor-1254	1,000		µg/kg dry	26.0	1	"	"	"	"	
11096-82-5	Aroclor-1260	1,110		µg/kg dry	26.0	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	26.0	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	26.0	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	62		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	68		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	65		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	77		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	11,900	GS1	mg/kg dry	18.4	10	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	76.6		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S221-4-6**

SB04164-10

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:35

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	78.2		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S222-0-2**

SB04164-11

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:40

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.7	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.7	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.7	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.7	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.7	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.7	1	"	"	"	"	
11096-82-5	Aroclor-1260	35,200	E	µg/kg dry	20.7	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.7	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.7	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	59		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	68		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	135		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	207	10	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	207	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	207	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	207	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	207	10	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	207	10	"	"	"	"	
11096-82-5	Aroclor-1260	44,000		µg/kg dry	207	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	207	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	207	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	63,000	GS1	mg/kg dry	30.8	20	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	89.1		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S222-2-4**

SB04164-12

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:40

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.1	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	24.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	815		µg/kg dry	24.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	66		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	61		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	57		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	1,480	GS1	mg/kg dry	17.3	10	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	79.7		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S222-4-6**

SB04164-13

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:40

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	79.8		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S223-0-2**

SB04164-14

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:45

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	21.6	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	21.6	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	21.6	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	21.6	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	21.6	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	21.6	1	"	"	"	"	
11096-82-5	Aroclor-1260	56,600	E	µg/kg dry	21.6	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	21.6	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	21.6	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	61		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	72		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	63		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	433	20	SW846 8082	19-Nov-09	23-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	433	20	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	433	20	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	433	20	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	433	20	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	433	20	"	"	"	"	
11096-82-5	Aroclor-1260	96,800		µg/kg dry	433	20	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	433	20	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	433	20	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	57,300	GS1	mg/kg dry	27.8	20	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	91.5		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S223-2-4**

SB04164-15

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:45

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.1	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	23.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	36,400	E	µg/kg dry	23.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.1	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	58		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	113		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	131		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	231	10	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	231	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	231	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	231	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	231	10	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	231	10	"	"	"	"	
11096-82-5	Aroclor-1260	42,400		µg/kg dry	231	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	231	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	231	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	126,000	GS1	mg/kg dry	84.5	50	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	84.6		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S223-4-6**

SB04164-16

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:45

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	33.6	1	SW846 8082	19-Nov-09	04-Dec-09	9111565	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	33.6	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	33.6	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	33.6	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	33.6	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	33.6	1	"	"	"	"	
11096-82-5	Aroclor-1260	71.1		µg/kg dry	33.6	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	33.6	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	33.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	46		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	92		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	149		30-150 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	59.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S224-0-2**

SB04164-17

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:50

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	23.4	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	23.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	23.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	23.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	23.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	23.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	5,270		µg/kg dry	23.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	23.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	23.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	56		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	44		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	36		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	81,700	GS1	mg/kg dry	74.7	50	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	85.0		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S224-2-4**

SB04164-18

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:50

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	27.4	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	27.4	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	27.4	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	27.4	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	27.4	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	27.4	1	"	"	"	"	
11096-82-5	Aroclor-1260	33.4		µg/kg dry	27.4	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	27.4	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	27.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	62		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	56		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	34		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	38		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	4,150		mg/kg dry	2.06	1	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	71.9		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S224-4-6**

SB04164-19

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:50

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	68.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S224-6-8**

SB04164-20

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 08:50

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	75.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111560	

Sample Identification**S225-0-2**

SB04164-21

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:00

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.1	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.1	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.1	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.1	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.1	1	"	"	"	"	
11097-69-1	Aroclor-1254	1,390		µg/kg dry	22.1	1	"	"	"	"	
11096-82-5	Aroclor-1260	718		µg/kg dry	22.1	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.1	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.1	1	"	"	"	"	
Surrogate recoveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	52		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	38		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	38		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	89,700	GS1	mg/kg dry	82.1	50	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	83.7		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S225-2-4**

SB04164-22

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:00

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	24.6	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	24.6	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	24.6	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	24.6	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	24.6	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	24.6	1	"	"	"	"	
11096-82-5	Aroclor-1260	46.6		µg/kg dry	24.6	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	24.6	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	24.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	48		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	7,480		mg/kg dry	1.94	1	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	77.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S225-4-6**

SB04164-23

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:00

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	72.1		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S226-0-2**

SB04164-24

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:10

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	83.8		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S226-2-4**

SB04164-25

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:10

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	80.5		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S226-4-6**

SB04164-26

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:10

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	82.8		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S227-0-2**

SB04164-27

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:15

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	87.6		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S227-2-4**

SB04164-28

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:15

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	75.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S227-4-6**

SB04164-29

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 09:15

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	77.8		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S228-0-2**

SB04164-30

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:30

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	86.4		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S228-2-4**

SB04164-31

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:30

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	83.2		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S228-4-6**

SB04164-32

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:30

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	83.8		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S228-6-8**

SB04164-33

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:30

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	83.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S229-0-2**

SB04164-34

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:35

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111565	
General Chemistry Parameters											
	% Solids	79.7		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S229-2-4**

SB04164-35

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:35

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111566	
General Chemistry Parameters											
	% Solids	81.9		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S229-4-6**

SB04164-36

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:35

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS											
	Extraction	Completed		N/A		1	SW846 3550B	19-Nov-09	25-Nov-09	9111566	
General Chemistry Parameters											
	% Solids	78.2		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

Sample Identification**S301-9-10**

SB04164-37

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 10:00

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	7,220		mg/kg dry	13.8	1	MADEP EPH 5/2004 R	18-Nov-09	20-Nov-09	9111377	
	C19-C36 Aliphatic Hydrocarbons	347		mg/kg dry	13.8	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	1,930		mg/kg dry	13.8	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	1,950		mg/kg dry	13.8	1	"	"	"	"	
	Total Petroleum Hydrocarbons	9,500		mg/kg dry	13.8	1	"	"	"	"	
	Unadjusted Total Petroleum Hydrocarbons	9,520		mg/kg dry	13.8	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	460	1	"	"	"	"	
91-57-6	2-Methylnaphthalene	13,800		µg/kg dry	460	1	"	"	"	"	
208-96-8	Acenaphthylene	BRL		µg/kg dry	460	1	"	"	"	"	
83-32-9	Acenaphthene	BRL		µg/kg dry	460	1	"	"	"	"	
86-73-7	Fluorene	BRL		µg/kg dry	460	1	"	"	"	"	
85-01-8	Phenanthrene	1,910		µg/kg dry	460	1	"	"	"	"	
120-12-7	Anthracene	BRL		µg/kg dry	460	1	"	"	"	"	
206-44-0	Fluoranthene	852		µg/kg dry	460	1	"	"	"	"	
129-00-0	Pyrene	825		µg/kg dry	460	1	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	460	1	"	"	"	"	
218-01-9	Chrysene	BRL		µg/kg dry	460	1	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	460	1	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	460	1	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	460	1	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	460	1	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	460	1	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	460	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
3386-33-2	1-Chlorooctadecane	79		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	76		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	88		40-140 %			"	"	"	"	
General Chemistry Parameters											
	% Solids	70.6		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Sample Identification**S255-0-2**

SB04164-38

Client Project #

458-02B/001

Matrix

Soil

Collection Date/Time

13-Nov-09 11:00

Received

16-Nov-09

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GC											
<u>Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	22.2	1	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	22.2	1	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	22.2	1	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	22.2	1	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	22.2	1	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	22.2	1	"	"	"	"	
11096-82-5	Aroclor-1260	17,100	E	µg/kg dry	22.2	1	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	22.2	1	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	22.2	1	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	57		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	51		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	56		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65		30-150 %			"	"	"	"	
<u>Re-analysis of Polychlorinated Biphenyls by SW846 8082</u>											
Prepared by method SW846 3540C											
12674-11-2	Aroclor-1016	BRL		µg/kg dry	222	10	SW846 8082	19-Nov-09	22-Nov-09	9111563	
11104-28-2	Aroclor-1221	BRL		µg/kg dry	222	10	"	"	"	"	
11141-16-5	Aroclor-1232	BRL		µg/kg dry	222	10	"	"	"	"	
53469-21-9	Aroclor-1242	BRL		µg/kg dry	222	10	"	"	"	"	
12672-29-6	Aroclor-1248	BRL		µg/kg dry	222	10	"	"	"	"	
11097-69-1	Aroclor-1254	BRL		µg/kg dry	222	10	"	"	"	"	
11096-82-5	Aroclor-1260	17,300		µg/kg dry	222	10	"	"	"	"	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	222	10	"	"	"	"	
11100-14-4	Aroclor-1268	BRL		µg/kg dry	222	10	"	"	"	"	
<u>Surrogate recoveries:</u>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	86,500	GS1	mg/kg dry	81.0	50	SW846 6010B	20-Nov-09	23-Nov-09	9111575	
General Chemistry Parameters											
	% Solids	86.3		%		1	SM2540 G Mod.	19-Nov-09	19-Nov-09	9111561	

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111565 - SW846 3540C										
<u>Blank (9111565-BLK1)</u>										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A							
<u>LCS (9111565-BS1)</u>										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A					0-200		
<u>LCS Dup (9111565-BSD1)</u>										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A					0-200		200
<u>Duplicate (9111565-DUP1)</u> Source: SB04164-06										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A			Completed				200
<u>Matrix Spike (9111565-MS1)</u> Source: SB04164-06										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A			Completed		0-200		
<u>Matrix Spike Dup (9111565-MSD1)</u> Source: SB04164-06										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A			Completed		0-200		200
Batch 9111566 - SW846 3540C										
<u>Blank (9111566-BLK1)</u>										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A							
<u>LCS (9111566-BS1)</u>										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A					0-200		
<u>LCS Dup (9111566-BSD1)</u>										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A					0-200		200
<u>Duplicate (9111566-DUP1)</u> Source: SB04164-35										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A			Completed				200
<u>Matrix Spike (9111566-MS1)</u> Source: SB04164-35										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A			Completed		0-200		
<u>Matrix Spike Dup (9111566-MSD1)</u> Source: SB04164-35										
Prepared: 19-Nov-09 Analyzed: 25-Nov-09										
Extraction	Completed		N/A			Completed		0-200		200

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111563 - SW846 3540C										
<u>Blank (9111563-BLK1)</u>										
Prepared: 19-Nov-09 Analyzed: 21-Nov-09										
Aroclor-1016	BRL		µg/kg wet we	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1221	BRL		µg/kg wet we	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1232	BRL		µg/kg wet we	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1242	BRL		µg/kg wet we	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1248	BRL		µg/kg wet we	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1254	BRL		µg/kg wet we	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1260	BRL		µg/kg wet we	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1262	BRL		µg/kg wet we	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1268	BRL		µg/kg wet we	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet we	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.3		µg/kg wet we		20.0		62	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	10.8		µg/kg wet we		20.0		54	30-150		
Surrogate: Decachlorobiphenyl (Sr)	10.4		µg/kg wet we		20.0		52	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.00		µg/kg wet we		20.0		45	30-150		
<u>LCS (9111563-BS1)</u>										
Prepared: 19-Nov-09 Analyzed: 21-Nov-09										
Aroclor-1016	219		µg/kg wet we	20.0	250		88	50-140		
Aroclor-1016 [2C]	184		µg/kg wet we	20.0	250		74	50-140		
Aroclor-1260	185		µg/kg wet we	20.0	250		74	50-140		
Aroclor-1260 [2C]	166		µg/kg wet we	20.0	250		66	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.0		µg/kg wet we		20.0		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	11.1		µg/kg wet we		20.0		56	30-150		
Surrogate: Decachlorobiphenyl (Sr)	11.9		µg/kg wet we		20.0		60	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	8.50		µg/kg wet we		20.0		42	30-150		
<u>LCS Dup (9111563-BSD1)</u>										
Prepared: 19-Nov-09 Analyzed: 21-Nov-09										
Aroclor-1016	193		µg/kg wet we	20.0	250		77	50-140	13	30
Aroclor-1016 [2C]	183		µg/kg wet we	20.0	250		73	50-140	0.4	30
Aroclor-1260	186		µg/kg wet we	20.0	250		74	50-140	0.8	30
Aroclor-1260 [2C]	167		µg/kg wet we	20.0	250		67	50-140	0.6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.1		µg/kg wet we		20.0		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	11.1		µg/kg wet we		20.0		56	30-150		
Surrogate: Decachlorobiphenyl (Sr)	11.8		µg/kg wet we		20.0		59	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	8.90		µg/kg wet we		20.0		44	30-150		
<u>Duplicate (9111563-DUP1)</u>										
Source: SB04164-15										
Prepared: 19-Nov-09 Analyzed: 21-Nov-09										
Aroclor-1016	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1221	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	23.3		BRL				40

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111563 - SW846 3540C										
Duplicate (9111563-DUP1)		Source: SB04164-15								
Prepared: 19-Nov-09 Analyzed: 21-Nov-09										
Aroclor-1242	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1254	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1254 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1260	37300	E	µg/kg dry dry	23.3		32800			13	40
Aroclor-1260 [2C]	31000	E	µg/kg dry dry	23.3		36400			16	40
Aroclor-1262	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1268	BRL		µg/kg dry dry	23.3		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	23.3		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	6.05		µg/kg dry dry		11.6		52	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	6.28		µg/kg dry dry		11.6		54	30-150		
Surrogate: Decachlorobiphenyl (Sr)	9.53		µg/kg dry dry		11.6		82	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	10.0		µg/kg dry dry		11.6		86	30-150		
Duplicate (9111563-DUP2)		Source: SB04164-15								
Prepared: 19-Nov-09 Analyzed: 22-Nov-09										
Aroclor-1016	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1221	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1242	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1254	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1254 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1260	49000		µg/kg dry dry	233		41300			17	40
Aroclor-1260 [2C]	37900		µg/kg dry dry	233		42400			11	40
Aroclor-1262	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1268	BRL		µg/kg dry dry	233		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	233		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	5.81		µg/kg dry dry		11.6		50	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	11.6		µg/kg dry dry		11.6		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.0		µg/kg dry dry		11.6		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.0		µg/kg dry dry		11.6		120	30-150		
Matrix Spike (9111563-MS1)		Source: SB04164-15								
Prepared: 19-Nov-09 Analyzed: 22-Nov-09										
Aroclor-1016	199		µg/kg dry dry	23.0	287	BRL	69	40-135		
Aroclor-1016 [2C]	232		µg/kg dry dry	23.0	287	BRL	81	40-135		
Aroclor-1260	39700	E, QM2	µg/kg dry dry	23.0	287	32800	2390	40-135		
Aroclor-1260 [2C]	43000	E, QM2	µg/kg dry dry	23.0	287	36400	2300	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	6.55		µg/kg dry dry		11.5		57	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	9.43		µg/kg dry dry		11.5		82	30-150		
Surrogate: Decachlorobiphenyl (Sr)	12.6		µg/kg dry dry		11.5		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	12.1		µg/kg dry dry		11.5		105	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 9111563 - SW846 3540C										
Matrix Spike (9111563-MS2)		Source: SB04164-38								
Prepared: 19-Nov-09 Analyzed: 22-Nov-09										
Aroclor-1016	268		µg/kg dry dry	22.6	282	BRL	95	40-135		
Aroclor-1016 [2C]	281		µg/kg dry dry	22.6	282	BRL	100	40-135		
Aroclor-1260	10800	E, QM2	µg/kg dry dry	22.6	282	13200	-838	40-135		
Aroclor-1260 [2C]	11700	E, QM2	µg/kg dry dry	22.6	282	17100	-1940	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.6		µg/kg dry dry		22.6		47	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	13.1		µg/kg dry dry		22.6		58	30-150		
Surrogate: Decachlorobiphenyl (Sr)	12.0		µg/kg dry dry		22.6		53	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.3		µg/kg dry dry		22.6		77	30-150		
Matrix Spike Dup (9111563-MSD1)		Source: SB04164-15								
Prepared: 19-Nov-09 Analyzed: 22-Nov-09										
Aroclor-1016	169		µg/kg dry dry	22.5	281	BRL	60	40-135	14	15
Aroclor-1016 [2C]	173	QR2	µg/kg dry dry	22.5	281	BRL	62	40-135	27	15
Aroclor-1260	33400	E, QM2	µg/kg dry dry	22.5	281	32800	199	40-135	169	20
Aroclor-1260 [2C]	32000	E, QM2	µg/kg dry dry	22.5	281	36400	-1590	40-135	NR	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	5.39		µg/kg dry dry		11.2		48	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	5.50		µg/kg dry dry		11.2		49	30-150		
Surrogate: Decachlorobiphenyl (Sr)	8.98		µg/kg dry dry		11.2		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.66		µg/kg dry dry		11.2		86	30-150		
Matrix Spike Dup (9111563-MSD2)		Source: SB04164-38								
Prepared: 19-Nov-09 Analyzed: 22-Nov-09										
Aroclor-1016	240		µg/kg dry dry	22.1	276	BRL	87	40-135	9	15
Aroclor-1016 [2C]	240		µg/kg dry dry	22.1	276	BRL	87	40-135	14	15
Aroclor-1260	10500	E, QM2	µg/kg dry dry	22.1	276	13200	-955	40-135	NR	20
Aroclor-1260 [2C]	11800	E, QM2	µg/kg dry dry	22.1	276	17100	-1920	40-135	NR	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	9.27		µg/kg dry dry		22.1		42	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	10.8		µg/kg dry dry		22.1		49	30-150		
Surrogate: Decachlorobiphenyl (Sr)	11.9		µg/kg dry dry		22.1		54	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	10.7		µg/kg dry dry		22.1		49	30-150		
Batch 9111565 - SW846 3540C										
Blank (9111565-BLK1)										
Prepared: 19-Nov-09 Analyzed: 04-Dec-09										
Aroclor-1016	BRL		µg/kg wet we	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1221	BRL		µg/kg wet we	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1232	BRL		µg/kg wet we	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1242	BRL		µg/kg wet we	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1248	BRL		µg/kg wet we	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1254	BRL		µg/kg wet we	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1260	BRL		µg/kg wet we	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1262	BRL		µg/kg wet we	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet we	20.0						

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111565 - SW846 3540C										
<u>Blank (9111565-BLK1)</u>										
Prepared: 19-Nov-09 Analyzed: 04-Dec-09										
Aroclor-1268	BRL		µg/kg wet we	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet we	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.2		µg/kg wet we		20.0		91	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.5		µg/kg wet we		20.0		88	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.9		µg/kg wet we		20.0		94	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.7		µg/kg wet we		20.0		98	30-150		
<u>LCS (9111565-BS1)</u>										
Prepared: 19-Nov-09 Analyzed: 04-Dec-09										
Aroclor-1016	212		µg/kg wet we	20.0	250		85	50-140		
Aroclor-1016 [2C]	219		µg/kg wet we	20.0	250		88	50-140		
Aroclor-1260	210		µg/kg wet we	20.0	250		84	50-140		
Aroclor-1260 [2C]	200		µg/kg wet we	20.0	250		80	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.7		µg/kg wet we		20.0		84	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.3		µg/kg wet we		20.0		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.3		µg/kg wet we		20.0		96	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.6		µg/kg wet we		20.0		98	30-150		
<u>LCS Dup (9111565-BSD1)</u>										
Prepared: 19-Nov-09 Analyzed: 04-Dec-09										
Aroclor-1016	206		µg/kg wet we	20.0	250		82	50-140	3	30
Aroclor-1016 [2C]	216		µg/kg wet we	20.0	250		87	50-140	1	30
Aroclor-1260	210		µg/kg wet we	20.0	250		84	50-140	0.1	30
Aroclor-1260 [2C]	185		µg/kg wet we	20.0	250		74	50-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.4		µg/kg wet we		20.0		87	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [:	17.1		µg/kg wet we		20.0		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.1		µg/kg wet we		20.0		106	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.1		µg/kg wet we		20.0		111	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111377 - SW846 3545A										
Blank (9111377-BLK1)										
Prepared & Analyzed: 18-Nov-09										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet we	5.00						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet we	5.00						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet we	5.00						
Unadjusted C11-C22 Aromatic Hydrocarbon	BRL		mg/kg wet we	5.00						
Total Petroleum Hydrocarbons	BRL		mg/kg wet we	5.00						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg wet we	5.00						
Naphthalene	BRL		µg/kg wet we	166						
2-Methylnaphthalene	BRL		µg/kg wet we	166						
Acenaphthylene	BRL		µg/kg wet we	166						
Acenaphthene	BRL		µg/kg wet we	166						
Fluorene	BRL		µg/kg wet we	166						
Phenanthrene	BRL		µg/kg wet we	166						
Anthracene	BRL		µg/kg wet we	166						
Fluoranthene	BRL		µg/kg wet we	166						
Pyrene	BRL		µg/kg wet we	166						
Benzo (a) anthracene	BRL		µg/kg wet we	166						
Chrysene	BRL		µg/kg wet we	166						
Benzo (b) fluoranthene	BRL		µg/kg wet we	166						
Benzo (k) fluoranthene	BRL		µg/kg wet we	166						
Benzo (a) pyrene	BRL		µg/kg wet we	166						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet we	166						
Dibenzo (a,h) anthracene	BRL		µg/kg wet we	166						
Benzo (g,h,i) perylene	BRL		µg/kg wet we	166						
Surrogate: 1-Chlorooctadecane	2840		µg/kg wet we		3330		85	40-140		
Surrogate: Ortho-Terphenyl	2290		µg/kg wet we		3330		69	40-140		
Surrogate: 2-Fluorobiphenyl	1900		µg/kg wet we		2670		71	40-140		
LCS (9111377-BS1)										
Prepared & Analyzed: 18-Nov-09										
C9-C18 Aliphatic Hydrocarbons	22.7		mg/kg wet we	5.00	40.0		57	40-140		
C19-C36 Aliphatic Hydrocarbons	48.2		mg/kg wet we	5.00	53.3		90	40-140		
C11-C22 Aromatic Hydrocarbons	82.0		mg/kg wet we	5.00	113		72	40-140		
Naphthalene	3350		µg/kg wet we	166	6670		50	40-140		
2-Methylnaphthalene	3580		µg/kg wet we	166	6670		54	40-140		
Acenaphthylene	3910		µg/kg wet we	166	6670		59	40-140		
Acenaphthene	4090		µg/kg wet we	166	6670		61	40-140		
Fluorene	4420		µg/kg wet we	166	6670		66	40-140		
Phenanthrene	4830		µg/kg wet we	166	6670		72	40-140		
Anthracene	4480		µg/kg wet we	166	6670		67	40-140		
Fluoranthene	5110		µg/kg wet we	166	6670		77	40-140		
Pyrene	5000		µg/kg wet we	166	6670		75	40-140		
Benzo (a) anthracene	5150		µg/kg wet we	166	6670		77	40-140		
Chrysene	4990		µg/kg wet we	166	6670		75	40-140		
Benzo (b) fluoranthene	5030		µg/kg wet we	166	6670		75	40-140		
Benzo (k) fluoranthene	4970		µg/kg wet we	166	6670		75	40-140		
Benzo (a) pyrene	4850		µg/kg wet we	166	6670		73	40-140		
Indeno (1,2,3-cd) pyrene	5300		µg/kg wet we	166	6670		80	40-140		
Dibenzo (a,h) anthracene	5200		µg/kg wet we	166	6670		78	40-140		
Benzo (g,h,i) perylene	5440		µg/kg wet we	166	6670		82	40-140		
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670		0.0001	0-200		

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 9111377 - SW846 3545A										
<u>LCS (9111377-BS1)</u>										
Prepared & Analyzed: 18-Nov-09										
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670		0.0001	0-200		
Surrogate: 1-Chlorooctadecane	2720		µg/kg wet we		3330		82	40-140		
Surrogate: Ortho-Terphenyl	2330		µg/kg wet we		3330		70	40-140		
Surrogate: 2-Fluorobiphenyl	1860		µg/kg wet we		2670		70	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS (9111377-BS2)</u>										
Prepared & Analyzed: 18-Nov-09										
C9-C18 Aliphatic Hydrocarbons	26.1		mg/kg wet we	5.00	40.0		65	40-140		
C19-C36 Aliphatic Hydrocarbons	35.9		mg/kg wet we	5.00	53.3		67	40-140		
C11-C22 Aromatic Hydrocarbons	80.0		mg/kg wet we	5.00	113		71	40-140		
Naphthalene	3970		µg/kg wet we	166	6670		60	40-140		
2-Methylnaphthalene	4150		µg/kg wet we	166	6670		62	40-140		
Acenaphthylene	4640		µg/kg wet we	166	6670		70	40-140		
Acenaphthene	4430		µg/kg wet we	166	6670		66	40-140		
Fluorene	4730		µg/kg wet we	166	6670		71	40-140		
Phenanthrene	4690		µg/kg wet we	166	6670		70	40-140		
Anthracene	4360		µg/kg wet we	166	6670		65	40-140		
Fluoranthene	4600		µg/kg wet we	166	6670		69	40-140		
Pyrene	4720		µg/kg wet we	166	6670		71	40-140		
Benzo (a) anthracene	4750		µg/kg wet we	166	6670		71	40-140		
Chrysene	4630		µg/kg wet we	166	6670		69	40-140		
Benzo (b) fluoranthene	4400		µg/kg wet we	166	6670		66	40-140		
Benzo (k) fluoranthene	4550		µg/kg wet we	166	6670		68	40-140		
Benzo (a) pyrene	4270		µg/kg wet we	166	6670		64	40-140		
Indeno (1,2,3-cd) pyrene	4700		µg/kg wet we	166	6670		70	40-140		
Dibenzo (a,h) anthracene	4600		µg/kg wet we	166	6670		69	40-140		
Benzo (g,h,i) perylene	4680		µg/kg wet we	166	6670		70	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet we		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet we		6670			0-200		
Surrogate: 1-Chlorooctadecane	2780		µg/kg wet we		3330		83	40-140		
Surrogate: Ortho-Terphenyl	2340		µg/kg wet we		3330		70	40-140		
Surrogate: 2-Fluorobiphenyl	1760		µg/kg wet we		2670		66	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
<u>LCS Dup (9111377-BSD1)</u>										
Prepared & Analyzed: 18-Nov-09										
C9-C18 Aliphatic Hydrocarbons	22.7		mg/kg wet we	5.00	40.0		57	40-140	0.3	25
C19-C36 Aliphatic Hydrocarbons	50.5		mg/kg wet we	5.00	53.3		95	40-140	5	25
C11-C22 Aromatic Hydrocarbons	86.7		mg/kg wet we	5.00	113		76	40-140	6	25
Naphthalene	3200		µg/kg wet we	166	6670		48	40-140	5	30
2-Methylnaphthalene	3390		µg/kg wet we	166	6670		51	40-140	5	30
Acenaphthylene	3860		µg/kg wet we	166	6670		58	40-140	1	30
Acenaphthene	3920		µg/kg wet we	166	6670		59	40-140	4	30
Fluorene	4400		µg/kg wet we	166	6670		66	40-140	0.4	30
Phenanthrene	4850		µg/kg wet we	166	6670		73	40-140	0.5	30
Anthracene	4470		µg/kg wet we	166	6670		67	40-140	0.3	30
Fluoranthene	5260		µg/kg wet we	166	6670		79	40-140	3	30
Pyrene	5280		µg/kg wet we	166	6670		79	40-140	5	30
Benzo (a) anthracene	5350		µg/kg wet we	166	6670		80	40-140	4	30

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 9111377 - SW846 3545A										
<u>LCS Dup (9111377-BSD1)</u>										
Prepared & Analyzed: 18-Nov-09										
Chrysene	5310		µg/kg wet we	166	6670		80	40-140	6	30
Benzo (b) fluoranthene	5260		µg/kg wet we	166	6670		79	40-140	4	30
Benzo (k) fluoranthene	5330		µg/kg wet we	166	6670		80	40-140	7	30
Benzo (a) pyrene	5130		µg/kg wet we	166	6670		77	40-140	6	30
Indeno (1,2,3-cd) pyrene	5710		µg/kg wet we	166	6670		86	40-140	7	30
Dibenzo (a,h) anthracene	5600		µg/kg wet we	166	6670		84	40-140	7	30
Benzo (g,h,i) perylene	5830		µg/kg wet we	166	6670		87	40-140	7	30
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670		0.0001	0-200	0	200
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670		0.0001	0-200	0	200
Surrogate: 1-Chlorooctadecane	3070		µg/kg wet we		3330		92	40-140		
Surrogate: Ortho-Terphenyl	2360		µg/kg wet we		3330		71	40-140		
Surrogate: 2-Fluorobiphenyl	1930		µg/kg wet we		2670		72	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch 9111575 - SW846 3050B										
<u>Blank (9111575-BLK1)</u>										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	BRL		mg/kg wet we	1.29						
<u>Matrix Spike (9111575-MS1)</u> Source: SB04164-15										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	87500	QM2	mg/kg dry dry	77.6	129	126000	-29400	75-125		
<u>Matrix Spike (9111575-MS2)</u> Source: SB04164-38										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	87800	QM2	mg/kg dry dry	77.7	130	86500	996	75-125		
<u>Matrix Spike Dup (9111575-MSD1)</u> Source: SB04164-15										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	92700	QM2	mg/kg dry dry	85.9	143	126000	-22900	75-125	6	20
<u>Matrix Spike Dup (9111575-MSD2)</u> Source: SB04164-38										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	80700	QM2	mg/kg dry dry	77.1	129	86500	-4500	75-125	8	20
<u>Post Spike (9111575-PS1)</u> Source: SB04164-15										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	86600	QM2	mg/kg dry dry	88.1	147	126000	-26500	80-120		
<u>Post Spike (9111575-PS2)</u> Source: SB04164-38										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	91400	QM2	mg/kg dry dry	86.7	145	86500	3390	80-120		
<u>Reference (9111575-SRM1)</u>										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	58.8		mg/kg wet we	1.50	54.9		107	80.3-119.6		
<u>Reference (9111575-SRM2)</u>										
Prepared: 20-Nov-09 Analyzed: 23-Nov-09										
Lead	57.0		mg/kg wet we	1.50	54.2		105	80.3-119.6		

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch 9111560 - General Preparation									
<u>Duplicate (9111560-DUP1)</u>	Source: SB04164-01								
Prepared & Analyzed: 19-Nov-09									
% Solids	85.9		%			86.3		0.4	20
Batch 9111561 - General Preparation									
<u>Duplicate (9111561-DUP1)</u>	Source: SB04164-21								
Prepared & Analyzed: 19-Nov-09									
% Solids	85.7		%			83.7		2	20

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911223				
Calibration Check (S911223-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.315332E+11	1.227403E+08	-3.0	25.00
C19-C36 Aliphatic Hydrocarbons	1.475897E+11	1.135525E+08	-6.8	25.00
C11-C22 Aromatic Hydrocarbons	16239.01	15.27373	-14.1	25.00
Naphthalene	7.391994	6.855432	-7.3	20.00
2-Methylnaphthalene	4.974413	4.489691	-9.7	20.00
Acenaphthylene	6.795248	6.255644	-7.9	20.00
Acenaphthene	4.673663	4.185731	-10.4	20.00
Fluorene	5.06442	4.60182	-9.1	20.00
Phenanthrene	6.590575	5.914181	-10.3	20.00
Anthracene	7.028505	6.182917	-12.0	20.00
Fluoranthene	6.813848	6.053239	-11.2	20.00
Pyrene	6.922813	6.138582	-11.3	20.00
Benzo (a) anthracene	5.79222	5.27792	-8.9	20.00
Chrysene	5.829036	5.090323	-12.7	20.00
Benzo (b) fluoranthene	5.318473	5.043784	-5.2	20.00
Benzo (k) fluoranthene	5.556533	4.562878	-17.9	20.00
Benzo (a) pyrene	5.153106	4.633397	-10.1	20.00
Indeno (1,2,3-cd) pyrene	5.256555	5.191675	-1.2	20.00
Dibenzo (a,h) anthracene	4.4385	4.280203	-3.6	20.00
Benzo (g,h,i) perylene	4.493644	4.526324	0.7	20.00
5-alpha-Androstane	6216830	1	-100	
5-alpha-Androstane	6216.83	1	-100	

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* Reportable Detection Limit

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911293				
Calibration Check (S911293-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.315332E+11	1.188097E+08	-6.2	25.00
C19-C36 Aliphatic Hydrocarbons	1.475897E+11	1.090102E+08	-10.9	25.00
C11-C22 Aromatic Hydrocarbons	16239.01	15.77511	-11.2	25.00
Naphthalene	7.391994	6.577689	-11.0	20.00
2-Methylnaphthalene	4.974413	4.3903	-11.7	20.00
Acenaphthylene	6.795248	6.074711	-10.6	20.00
Acenaphthene	4.673663	4.083834	-12.6	20.00
Fluorene	5.06442	4.532492	-10.5	20.00
Phenanthrene	6.590575	5.814593	-11.8	20.00
Anthracene	7.028505	6.340788	-9.8	20.00
Fluoranthene	6.813848	6.256894	-8.2	20.00
Pyrene	6.922813	6.460083	-6.7	20.00
Benzo (a) anthracene	5.79222	5.834658	0.7	20.00
Chrysene	5.829036	5.741836	-1.5	20.00
Benzo (b) fluoranthene	5.318473	5.475295	2.9	20.00
Benzo (k) fluoranthene	5.556533	5.637042	1.4	20.00
Benzo (a) pyrene	5.153106	5.298674	2.8	20.00
Indeno (1,2,3-cd) pyrene	5.256555	5.881151	11.9	20.00
Dibenzo (a,h) anthracene	4.4385	4.787698	7.9	20.00
Benzo (g,h,i) perylene	4.493644	5.075276	12.9	20.00
5-alpha-Androstane	6216830	1	-100	
5-alpha-Androstane	6216.83	1	-100	

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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
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Batch S911349

Calibration Check (S911349-CCV1)

Aroclor-1016 (1)	0.0192724	2.093434E-02	8.6	15.00
Aroclor-1016 (2)	3.749398E-02	3.812271E-02	1.7	15.00
Aroclor-1016 (3)	2.524135E-02	2.774596E-02	9.9	15.00
Aroclor-1016 (4)	2.186719E-02	2.274273E-02	4.0	15.00
Aroclor-1016 (5)	3.444739E-02	3.515178E-02	2.0	15.00
Aroclor-1016 (1) [2C]	1.798212E-02	1.929184E-02	7.3	15.00
Aroclor-1016 (2) [2C]	0.0360158	3.800162E-02	5.5	15.00
Aroclor-1016 (3) [2C]	2.405363E-02	2.536459E-02	5.5	15.00
Aroclor-1016 (4) [2C]	0.0258608	2.877284E-02	11.3	15.00
Aroclor-1016 (5) [2C]	0.0303624	3.313824E-02	9.1	15.00
Aroclor-1260 (1)	3.041748E-02	3.433369E-02	12.9	15.00
Aroclor-1260 (2)	0.1076349	0.1197072	11.2	15.00
Aroclor-1260 (3)	5.941695E-02	6.607535E-02	11.2	15.00
Aroclor-1260 (4)	0.0697707	7.129386E-02	2.2	15.00
Aroclor-1260 (5)	4.045272E-02	3.995694E-02	-1.2	15.00
Aroclor-1260 (1) [2C]	2.242995E-02	0.0240194	7.1	15.00
Aroclor-1260 (2) [2C]	6.217467E-02	5.945998E-02	-4.4	15.00
Aroclor-1260 (3) [2C]	3.950456E-02	3.400485E-02	-13.9	15.00
Aroclor-1260 (4) [2C]	4.809744E-02	4.241229E-02	-11.8	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.8454252	-11.8	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.2958771	-36.5	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.475565	8.2	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.169927	-3.5	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV2)				
Aroclor-1016 (1)	0.0192724	1.977163E-02	2.6	15.00
Aroclor-1016 (2)	3.749398E-02	3.320302E-02	-11.4	15.00
Aroclor-1016 (3)	2.524135E-02	2.556222E-02	1.3	15.00
Aroclor-1016 (4)	2.186719E-02	2.155216E-02	-1.4	15.00
Aroclor-1016 (5)	3.444739E-02	3.468937E-02	0.7	15.00
Aroclor-1016 (1) [2C]	1.798212E-02	1.827788E-02	1.6	15.00
Aroclor-1016 (2) [2C]	0.0360158	3.665499E-02	1.8	15.00
Aroclor-1016 (3) [2C]	2.405363E-02	2.420899E-02	0.6	15.00
Aroclor-1016 (4) [2C]	0.0258608	2.575598E-02	-0.4	15.00
Aroclor-1016 (5) [2C]	0.0303624	3.133684E-02	3.2	15.00
Aroclor-1260 (1)	3.041748E-02	3.070254E-02	0.9	15.00
Aroclor-1260 (2)	0.1076349	0.1068163	-0.8	15.00
Aroclor-1260 (3)	5.941695E-02	6.011225E-02	1.2	15.00
Aroclor-1260 (4)	0.0697707	0.0714612	2.4	15.00
Aroclor-1260 (5)	4.045272E-02	0.0397755	-1.7	15.00
Aroclor-1260 (1) [2C]	2.242995E-02	2.340922E-02	4.4	15.00
Aroclor-1260 (2) [2C]	6.217467E-02	5.696439E-02	-8.4	15.00
Aroclor-1260 (3) [2C]	3.950456E-02	3.416813E-02	-13.5	15.00
Aroclor-1260 (4) [2C]	4.809744E-02	4.185639E-02	-13.0	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.8563964	-10.7	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.293345	-37.0	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.368492	0.4	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.155867	-4.7	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV3)				
Aroclor-1254 (1)	2.938847E-02	2.753791E-02	-6.3	15.00
Aroclor-1254 (2)	4.423231E-02	3.870651E-02	-12.5	15.00
Aroclor-1254 (3)	8.168434E-02	7.115076E-02	-12.9	15.00
Aroclor-1254 (4)	4.433012E-02	3.884924E-02	-12.4	15.00
Aroclor-1254 (5)	8.164716E-02	7.126673E-02	-12.7	15.00
Aroclor-1254 (1) [2C]	2.280685E-02	2.217855E-02	-2.8	15.00
Aroclor-1254 (2) [2C]	6.391995E-02	5.474504E-02	-14.4	15.00
Aroclor-1254 (3) [2C]	5.886549E-02	5.177706E-02	-12.0	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.8039697	-16.1	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.257835	-44.6	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.388938	1.9	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.235473	1.9	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

BRL = Below Reporting Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV4)				
Aroclor-1248 (1)	1.457574E-02	1.556217E-02	6.8	15.00
Aroclor-1248 (2)	9.788004E-03	9.956492E-03	1.7	15.00
Aroclor-1248 (3)	4.328463E-02	4.590795E-02	6.1	15.00
Aroclor-1248 (4)	7.102198E-02	7.051065E-02	-0.7	15.00
Aroclor-1248 (5)	2.230305E-02	2.199221E-02	-1.4	15.00
Aroclor-1248 (1) [2C]	1.673067E-02	1.612514E-02	-3.6	15.00
Aroclor-1248 (2) [2C]	1.016468E-02	9.444354E-03	-7.1	15.00
Aroclor-1248 (3) [2C]	0.0430171	3.842268E-02	-10.7	15.00
Aroclor-1248 (4) [2C]	4.438565E-02	3.797295E-02	-14.4	15.00
Aroclor-1248 (5) [2C]	2.063848E-02			15.00
Decachlorobiphenyl (Sr)	0.9586741	0.8397069	-12.4	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.2680463	-42.5	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.475613	8.2	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.182337	-2.5	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV5)				
Aroclor-1016 (1)	0.0192724	1.961451E-02	1.8	15.00
Aroclor-1016 (2)	3.749398E-02	3.261527E-02	-13.0	15.00
Aroclor-1016 (3)	2.524135E-02	2.557067E-02	1.3	15.00
Aroclor-1016 (4)	2.186719E-02	2.102041E-02	-3.9	15.00
Aroclor-1016 (5)	3.444739E-02	0.0333938	-3.1	15.00
Aroclor-1016 (1) [2C]	1.798212E-02	2.040804E-02	13.5	15.00
Aroclor-1016 (2) [2C]	0.0360158	3.816382E-02	6.0	15.00
Aroclor-1016 (3) [2C]	2.405363E-02	2.561056E-02	6.5	15.00
Aroclor-1016 (4) [2C]	0.0258608	2.876688E-02	11.2	15.00
Aroclor-1016 (5) [2C]	0.0303624	3.353135E-02	10.4	15.00
Aroclor-1260 (1)	3.041748E-02	2.966742E-02	-2.5	15.00
Aroclor-1260 (3)	5.941695E-02	5.750567E-02	-3.2	15.00
Aroclor-1260 (4)	0.0697707	6.851852E-02	-1.8	15.00
Aroclor-1260 (5)	4.045272E-02	3.951625E-02	-2.3	15.00
Aroclor-1260 (1) [2C]	2.242995E-02	2.312631E-02	3.1	15.00
Aroclor-1260 (2) [2C]	6.217467E-02	5.965797E-02	-4.0	15.00
Aroclor-1260 (3) [2C]	3.950456E-02	3.438344E-02	-13.0	15.00
Aroclor-1260 (4) [2C]	4.809744E-02	4.090009E-02	-15.0	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.8397581	-12.4	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.3045305	-34.6	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.315193	-3.5	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.20252	-0.8	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV6)				
Aroclor-1016 (1)	0.0192724	1.977423E-02	2.6	15.00
Aroclor-1016 (2)	3.749398E-02	3.289996E-02	-12.3	15.00
Aroclor-1016 (3)	2.524135E-02	2.386921E-02	-5.4	15.00
Aroclor-1016 (4)	2.186719E-02	2.017127E-02	-7.8	15.00
Aroclor-1016 (5)	3.444739E-02	3.304788E-02	-4.1	15.00
Aroclor-1016 (1) [2C]	1.798212E-02	1.950873E-02	8.5	15.00
Aroclor-1016 (2) [2C]	0.0360158	3.657532E-02	1.6	15.00
Aroclor-1016 (3) [2C]	2.405363E-02	2.454068E-02	2.0	15.00
Aroclor-1016 (4) [2C]	0.0258608	2.760187E-02	6.7	15.00
Aroclor-1016 (5) [2C]	0.0303624	3.228738E-02	6.3	15.00
Aroclor-1260 (1)	3.041748E-02	2.959128E-02	-2.7	15.00
Aroclor-1260 (2)	0.1076349	0.1031063	-4.2	15.00
Aroclor-1260 (3)	5.941695E-02	5.793694E-02	-2.5	15.00
Aroclor-1260 (4)	0.0697707	6.634488E-02	-4.9	15.00
Aroclor-1260 (5)	4.045272E-02	4.180615E-02	3.3	15.00
Aroclor-1260 (1) [2C]	2.242995E-02	2.122391E-02	-5.4	15.00
Aroclor-1260 (2) [2C]	6.217467E-02	5.811728E-02	-6.5	15.00
Aroclor-1260 (3) [2C]	3.950456E-02	3.631975E-02	-8.1	15.00
Aroclor-1260 (4) [2C]	4.809744E-02	4.198211E-02	-12.7	15.00
Aroclor-1260 (5) [2C]	2.457011E-02	2.193951E-02	-10.7	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.979564	2.2	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.3291211	-29.3	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.33223	-2.3	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.178475	-2.8	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV7)				
Aroclor-1254 (1)	2.938847E-02	2.710493E-02	-7.8	15.00
Aroclor-1254 (2)	4.423231E-02	3.995786E-02	-9.7	15.00
Aroclor-1254 (3)	8.168434E-02	7.272651E-02	-11.0	15.00
Aroclor-1254 (4)	4.433012E-02	4.289086E-02	-3.2	15.00
Aroclor-1254 (5)	8.164716E-02	7.546566E-02	-7.6	15.00
Aroclor-1254 (1) [2C]	2.280685E-02	2.015951E-02	-11.6	15.00
Aroclor-1254 (2) [2C]	6.391995E-02	0.0597794	-6.5	15.00
Aroclor-1254 (3) [2C]	5.886549E-02	5.499406E-02	-6.6	15.00
Aroclor-1254 (4) [2C]	3.937547E-02	3.456983E-02	-12.2	15.00
Aroclor-1254 (5) [2C]	6.930432E-02	6.195826E-02	-10.6	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.9669195	0.9	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.3517733	-24.5	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.396544	2.4	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.241473	2.4	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV8)				
Aroclor-1248 (1)	1.457574E-02	1.466498E-02	0.6	15.00
Aroclor-1248 (2)	9.788004E-03	9.009692E-03	-8.0	15.00
Aroclor-1248 (3)	4.328463E-02	0.0420059	-3.0	15.00
Aroclor-1248 (4)	7.102198E-02	6.517488E-02	-8.2	15.00
Aroclor-1248 (5)	2.230305E-02	0.0230847	3.5	15.00
Aroclor-1248 (1) [2C]	1.673067E-02	1.847616E-02	10.4	15.00
Aroclor-1248 (2) [2C]	1.016468E-02	1.109113E-02	9.1	15.00
Aroclor-1248 (3) [2C]	0.0430171	4.108603E-02	-4.5	15.00
Aroclor-1248 (4) [2C]	4.438565E-02	4.462922E-02	0.5	15.00
Aroclor-1248 (5) [2C]	2.063848E-02	2.337689E-02	13.3	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.9669195	0.9	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.3517733	-24.5	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.396544	2.4	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.241473	2.4	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCV9)				
Aroclor-1016 (1)	0.0192724	2.034281E-02	5.6	15.00
Aroclor-1016 (2)	3.749398E-02	3.834644E-02	2.3	15.00
Aroclor-1016 (3)	2.524135E-02	2.562613E-02	1.5	15.00
Aroclor-1016 (4)	2.186719E-02	2.327889E-02	6.5	15.00
Aroclor-1016 (5)	3.444739E-02	3.478927E-02	1.0	15.00
Aroclor-1016 (1) [2C]	1.798212E-02	0.0191871	6.7	15.00
Aroclor-1016 (2) [2C]	0.0360158	3.789032E-02	5.2	15.00
Aroclor-1016 (3) [2C]	2.405363E-02	2.490323E-02	3.5	15.00
Aroclor-1016 (4) [2C]	0.0258608	2.793548E-02	8.0	15.00
Aroclor-1016 (5) [2C]	0.0303624	3.297419E-02	8.6	15.00
Aroclor-1260 (1)	3.041748E-02	3.155475E-02	3.7	15.00
Aroclor-1260 (3)	5.941695E-02	6.283525E-02	5.8	15.00
Aroclor-1260 (4)	0.0697707	6.692478E-02	-4.1	15.00
Aroclor-1260 (5)	4.045272E-02	4.260536E-02	5.3	15.00
Aroclor-1260 (1) [2C]	2.242995E-02	2.434839E-02	8.6	15.00
Aroclor-1260 (2) [2C]	6.217467E-02	6.960645E-02	12.0	15.00
Aroclor-1260 (3) [2C]	3.950456E-02	4.405806E-02	11.5	15.00
Aroclor-1260 (4) [2C]	4.809744E-02	5.361935E-02	11.5	15.00
Aroclor-1260 (5) [2C]	2.457011E-02	2.714839E-02	10.5	15.00
Decachlorobiphenyl (Sr)	0.9586741	0.9772131	1.9	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.3962903	-14.9	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.384957	1.6	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.175	-3.1	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911349				
Calibration Check (S911349-CCVA)				
Aroclor-1016 (1)	0.0192724	1.842741E-02	-4.4	15.00
Aroclor-1016 (2)	3.749398E-02	0.0334799	-10.7	15.00
Aroclor-1016 (3)	2.524135E-02	0.0254387	0.8	15.00
Aroclor-1016 (4)	2.186719E-02	2.284017E-02	4.4	15.00
Aroclor-1016 (5)	3.444739E-02	3.568231E-02	3.6	15.00
Aroclor-1016 (1) [2C]	1.798212E-02	1.989564E-02	10.6	15.00
Aroclor-1016 (2) [2C]	0.0360158	3.754451E-02	4.2	15.00
Aroclor-1016 (3) [2C]	2.405363E-02	2.537753E-02	5.5	15.00
Aroclor-1016 (4) [2C]	0.0258608	2.877225E-02	11.3	15.00
Aroclor-1016 (5) [2C]	0.0303624	3.391037E-02	11.7	15.00
Aroclor-1260 (1)	3.041748E-02	3.158645E-02	3.8	15.00
Aroclor-1260 (3)	5.941695E-02	0.0615409	3.6	15.00
Aroclor-1260 (4)	0.0697707	7.294118E-02	4.5	15.00
Aroclor-1260 (5)	4.045272E-02	4.251931E-02	5.1	15.00
Aroclor-1260 (1) [2C]	2.242995E-02	2.285451E-02	1.9	15.00
Aroclor-1260 (2) [2C]	6.217467E-02	5.987109E-02	-3.7	15.00
Aroclor-1260 (3) [2C]	3.950456E-02	3.801105E-02	-3.8	15.00
Aroclor-1260 (4) [2C]	4.809744E-02	5.083487E-02	5.7	15.00
Aroclor-1260 (5) [2C]	2.457011E-02	2.561694E-02	4.3	15.00
Decachlorobiphenyl (Sr)	0.9586741	1.066548	11.3	50.00
Decachlorobiphenyl (Sr) [2C]	0.4657949	0.4042357	-13.2	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.363367	1.291741	-5.3	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.212352	1.186004	-2.2	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911771				
Calibration Check (S911771-CCV1)				
Aroclor-1016 (1)	0.0206471	2.090515E-02	1.2	15.00
Aroclor-1016 (2)	3.874236E-02	4.224013E-02	9.0	15.00
Aroclor-1016 (3)	2.708452E-02	2.723703E-02	0.6	15.00
Aroclor-1016 (4)	2.425606E-02	2.170696E-02	-10.5	15.00
Aroclor-1016 (5)	3.581163E-02	3.485018E-02	-2.7	15.00
Aroclor-1016 (1) [2C]	1.997819E-02	1.956191E-02	-2.1	15.00
Aroclor-1016 (2) [2C]	3.967617E-02	3.807119E-02	-4.0	15.00
Aroclor-1016 (3) [2C]	2.650078E-02	2.522057E-02	-4.8	15.00
Aroclor-1016 (4) [2C]	2.942547E-02	2.780043E-02	-5.5	15.00
Aroclor-1016 (5) [2C]	3.497774E-02	3.303316E-02	-5.6	15.00
Aroclor-1260 (1)	3.933903E-02	3.650341E-02	-7.2	15.00
Aroclor-1260 (2)	0.1366978	0.1286629	-5.9	15.00
Aroclor-1260 (3)	0.0713524	6.836123E-02	-4.2	15.00
Aroclor-1260 (4)	8.335617E-02	7.858648E-02	-5.7	15.00
Aroclor-1260 (5)	5.506173E-02	5.611077E-02	1.9	15.00
Aroclor-1260 (1) [2C]	2.808644E-02	2.614542E-02	-6.9	15.00
Aroclor-1260 (2) [2C]	7.559112E-02	0.0710435	-6.0	15.00
Aroclor-1260 (3) [2C]	4.586207E-02	4.101612E-02	-10.6	15.00
Aroclor-1260 (4) [2C]	5.658942E-02	5.225434E-02	-7.7	15.00
Aroclor-1260 (5) [2C]	2.890827E-02	2.526924E-02	-12.6	15.00
Decachlorobiphenyl (Sr)	0.9808047	1.05063	7.1	50.00
Decachlorobiphenyl (Sr) [2C]	0.3717207	0.4087314	10.0	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.291578	1.483364	14.8	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.168176	1.202312	2.9	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 66 of 70

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S911771				
Calibration Check (S911771-CCV2)				
Aroclor-1016 (1)	0.0206471	1.952127E-02	-5.5	15.00
Aroclor-1016 (2)	3.874236E-02	3.939384E-02	1.7	15.00
Aroclor-1016 (3)	2.708452E-02	2.603754E-02	-3.9	15.00
Aroclor-1016 (4)	2.425606E-02	2.379886E-02	-1.9	15.00
Aroclor-1016 (5)	3.581163E-02	3.305666E-02	-7.7	15.00
Aroclor-1016 (1) [2C]	1.997819E-02	1.974957E-02	-1.1	15.00
Aroclor-1016 (2) [2C]	3.967617E-02	3.868295E-02	-2.5	15.00
Aroclor-1016 (3) [2C]	2.650078E-02	2.578451E-02	-2.7	15.00
Aroclor-1016 (4) [2C]	2.942547E-02	2.888236E-02	-1.8	15.00
Aroclor-1016 (5) [2C]	3.497774E-02	3.450301E-02	-1.4	15.00
Aroclor-1260 (1)	3.933903E-02	3.912519E-02	-0.5	15.00
Aroclor-1260 (2)	0.1366978	0.1221767	-10.6	15.00
Aroclor-1260 (3)	0.0713524	6.921991E-02	-3.0	15.00
Aroclor-1260 (4)	8.335617E-02	8.206647E-02	-1.5	15.00
Aroclor-1260 (5)	5.506173E-02	4.734975E-02	-14.0	15.00
Aroclor-1260 (1) [2C]	2.808644E-02	0.0282393	0.5	15.00
Aroclor-1260 (2) [2C]	7.559112E-02	7.360643E-02	-2.6	15.00
Aroclor-1260 (3) [2C]	4.586207E-02	0.0450085	-1.9	15.00
Aroclor-1260 (4) [2C]	5.658942E-02	5.821611E-02	2.9	15.00
Aroclor-1260 (5) [2C]	2.890827E-02	3.141753E-02	8.7	15.00
Decachlorobiphenyl (Sr)	0.9808047	0.9736525	-0.7	50.00
Decachlorobiphenyl (Sr) [2C]	0.3717207	0.486474	30.9	50.00
4,4-DB-Octafluorobiphenyl (Sr)	1.291578	1.394179	7.9	50.00
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.168176	1.193075	2.1	50.00
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 67 of 70

Notes and Definitions

E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

A Matrix Spike and Matrix Spike Duplicate (MS/MSD) for MADEP EPH CAM may not have been analyzed with the samples in this work order. According to the method these spikes are performed only when requested by the client. If requested the spike recoveries are included in the batch QC data.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Kim Wisk
Nicole Leja
Rebecca Merz

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	Soil				
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking				
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to <2 in lab Comment:				
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received at 4 \pm 2 °C <input type="checkbox"/> Other: °C				

Were all QA/QC procedures followed as required by the EPH method? *Yes*

Were any significant modifications made to the EPH method as specified in Section 11.3? *No*

Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*


I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Authorized by:



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA				Project #: 458-02B/001	
Project Location: Topeka - Roxbury, MA				MADEP RTN ¹ :	
This form provides certifications for the following data set: SB04164-01 through SB04164-38					
Sample matrices:		Soil			
MCP SW-846 Methods Used	<input type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input checked="" type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input type="checkbox"/> 8081A	<input type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input checked="" type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input checked="" type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
¹ List Release Tracking Number (RTN), if known ² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method ³ S - SW-846 Methods 7000 Series List individual method and analyte					
<i>An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i>					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>A response to questions E and F below is required for "Presumptive Certainty" status</i>					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>					
<p>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</p> <div style="text-align: right; margin-top: 20px;">  Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 12/7/2009 </div>					



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01701
TEL: 508-653-8007
FAX: 508-653-8007
WWW.SPECTRUM-ANALYTICAL.COM

CHAIN OF CUSTODY RECORD

Page 1 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 11/16/09
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

Mattuck, MA 01760

508-653-8007

Project Mgr: Dan Marsh

Invoice To: Same

P.O. No.: _____

Project No.: 458-0283/001

Site Name: Topoka

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9=_____ 10=_____

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
01164	S2119-0-2	11/13/09	8:25	C	SO	NA	1				PCBs, when 8082	<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report <input type="checkbox"/> Provide CT DPH RCP Report QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC Other _____ State specific reporting standards: 5-1/52/5-3
02	S2119-2-4		8:25									
03	S2119-4-6		8:25									
04	S2119-0-2		8:30									
05	S2119-2-4		8:30									
06	S2119-4-6		8:30									
07	S2119-6-8		8:30									
08	S2119-0-2		8:35									
09	S2119-2-4		8:35									
10	S2119-4-6		8:35									

Condition upon receipt: ☐ Iced ☐ Ambient ☒ °C 43

Retinguished by: _____

Received by: _____

Date: _____ Time: _____



SPECTRUM ANALYTICAL, INC.
Framingham
HANDBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/23/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Mattuck, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.: _____

RON: _____

Project No.: 458-028/001

Site Name: Topoka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Meniz

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=____ 10=____
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=____ X2=____ X3=____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes:
4164-11	S222-0-2	11/13/09	8:40	C	SO	NA	1				PCBs Method 8020	
12	S222-2-4		8:40								Total Pb	
13	S222-4-6		8:40									
14	S223-0-2		8:45									
15	S223-2-4		8:45									
16	S223-4-6		8:45									
17	S224-0-2		8:50									
18	S224-2-4		8:50									
19	S224-4-6		8:50									
20	S224-6-8		8:50									

Retinquished by: Lucille Noya

Received by: QAC

Date: 11-16-09 Time: 11:57

Condition upon receipt: ☐ Iced ☐ Ambient 43 °C

Fax results when available to () _____

E-mail to dmarsh@irwinengineers.com

ADD Format pdf

QA/QC Reporting Level ☒ Standard ☐ No QC

State specific reporting standards: 5-1-5-2-15-3

IF unchecked, for PCBs please extract; hold for analysis

Need Soxhlet extraction



SPECTRUM ANALYTICAL, INC.
Providing
HARIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/23/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Mattuck, MA 01740

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

P.O. No.:

RON:

Project No.: 458-023/161

Site Name: Topeka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garrett Moniz

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes:
09164-21	S225-0-2	11/13/09	9:00	C	SO	NA	1				PCBs Methox 9082	State specific reporting standards: 5-1/5-215-3
22	S225-2-4		9:00									
23	S225-4-6		9:00									
24	S226-0-2		9:10									
25	S226-2-4		9:10									
26	S226-4-6		9:10									
27	S227-0-2		9:15									
28	S227-2-4		9:15									
29	S227-4-6		9:15									

Relinquished by:

Received by:

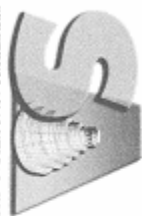
Date: Time:

☐ Fax results when available to ()
☒ E-mail to dmarch@irwinengineers.com
EDD Format pdf
Condition upon receipt: ☐ Iced ☐ Ambient ☒ 43

Label for
PCBs

PCBs

11-16-09 11:57
11/16/09 1757



SPECTRUM ANALYTICAL, INC.
Framingham
MA 01702

CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/23/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Erwin Engineers

33 W. Central St.

North, MA 01760

508-653-8007

Project Mgr: Dan Marsh

Invoice To: Same

P.O. No.:

RON:

Project No.: 458-02B/1001

Site Name: Topeka

Location: Roxbury

State: MA

Sampler(s): Dan Marsh, Garet Mainz

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid

7= CH_3OH 8= NaHSO_4 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	O/A Reporting Notes: (check if needed)
01164-30	S228-0-2	11/13/09	10:30	C	So	NA	1					PCBs Method 8082 Total Pb EPH	Provide MA DEP MCP CAM Report Provide CT DPH RCP Report QA/QC Reporting Level <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC Other State specific reporting standards: 51/52/53
31	S228-2-4		10:30										
32	S228-4-6		10:30										
33	S228-6-8		10:30										
34	S229-0-2		10:35										
35	S229-2-4		10:35										
36	S229-4-6		10:35										
37	S301-9-10		10:00										
38	S223-2-4 MS		8:45										
38	S255-2-4 MS		11:00										

Requisitioned by: [Signature]

Received by: [Signature]

Date: 11-16-09 Time: 11:57

Date: 11/16/09 Time: 1757

Condition upon receipt: ☐ Iced ☐ Ambient ☒ 43

E-mail to: dmarshe@erwineengineers.com

EDD Format: pdf



SPECTRUM ANALYTICAL, INC.
Framingham
MASSACHUSETTS 01001

CHAIN OF CUSTODY RECORD

Page 2 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11/23/09
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Irwin Engineers

33 W. Central St.

Mattuck, MA 01760

508-653-8007

Project Mgr.: Dan Marsh

Invoice To: Same

Project No.: 458-078/1001

Site Name: Topoka

Location: Roxbury

State: MA

P.O. No.: _____

RON: _____

Sampler(s): Dan Marsh, Garrett Moritz

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid

7= CH_3OH 8= NaHSO_4 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	Analyses:	QA Reporting Notes: (check if needed)
4164-11	S222-2-4	11/13/09	8:40	C	SO	NA	1					PCBs Method 8021	
12	S222-2-4		8:40										
13	S222-4-6		8:40										
14	S223-0-2		8:45										
15	S223-2-4		8:45										
16	S223-4-6		8:45										
17	S224-0-2		8:50										
18	S224-2-4		8:50										
19	S224-4-6		8:50										
20	S224-6-8		8:50										

Relinquished by:

Received by:

Date:

Time:

☐ Fax results when available to (_____) _____

☒ E-mail to dmarsh@irwinengineers.com

Irwin Engineers

11/16/09 11:57

EDD Format pdf

Irwin Engineers

11/16/09 11:57

1757

Condition upon receipt: ☐ Iced ☐ Ambient 43°C

APPENDIX C

Public Notification Letter

Phone (508) 653-8007
Fax (508) 653-8194



33 West Central Street
Natick, MA 01760-4503

February 16, 2010

Mayor Thomas M. Menino
Boston City Hall
One City Hall Square
Boston, MA 02201

**Re: Phase III Identification, Evaluation, and Selection of
Remedial Action Alternatives Report**

25, 47, 71 Topeka Street
Roxbury, Massachusetts
MassDEP Release Tracking Number 3-19130

Dear Mr. Mayor:

This letter informs you that a Phase III Identification, Evaluation, and Selection of Remedial Action Alternatives Report has been submitted to the Massachusetts Department of Environmental Protection (MassDEP) – Northeast Regional Office on behalf of our client, LMB Partners, Limited Partnership for the property identified as 25, 47, 71 Topeka Street in Roxbury, Massachusetts (the Site).

The Phase III evaluation resulted in selection of a Remedial Action Plan of soil removal for off-Site disposal to address the presence of polychlorinated biphenyls (PCBs) and lead in soil.

The Site is located in an urban commercial area with no residential or recreational uses nearby. The 71 Topeka Street parcel is occupied by a commercial cold warehouse operation. Current Site conditions on this portion of the Disposal Site do not present unacceptable risks for the current use scenarios.

The 25 and 47 Topeka Street portions of the Site are currently vacant with plans for redevelopment with a building pending a real estate transaction. This portion of the Site is secured with perimeter fencing that is maintained and locked to restrict access. The evaluation of data collected within the fenced portion of the Site indicates that the planned remedy of soil removal is needed to support a Condition of No Significant Risk Site for planned redevelopment.

Current conditions across the entire Site do not present unacceptable risks to Public Safety and Welfare, or the Environment, as defined by MassDEP.

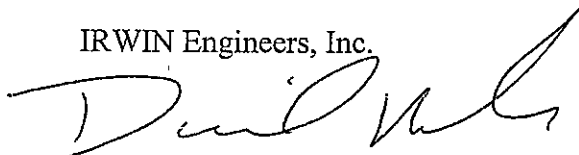
Mayor of Boston
Phase II Public Notification
RTN 3-19130
December 18, 2009

A copy of the Phase III Report is available for review on MassDEP's electronic file reviewer available at http://public.dep.state.ma.us/wsc_viewer/main.aspx. The report can be accessed by using the Release Tracking Number (RTN) 3-19130.

Please contact our office if you have any questions regarding the information contained in this letter.

Very truly yours,

IRWIN Engineers, Inc.

A handwritten signature in black ink, appearing to read 'Dan Marsh', is written over the company name.

Dan Marsh
Senior Project Scientist

CC: City of Boston Environment Department, One City Hall Square, Boston, MA 02201
Chris Cummings, LMB Partners, Limited Partnership, 8153 North Cedar Avenue, #118-B, Fresno,
CA 93720
DEP-BWSC-Northeast Regional Office, 205B Lowell Street, Wilmington, MA 01887